United States Department of Agriculture

Agricultural Marketing Service

Science and Technology Program

Pesticide Data Program

Annual Summary, Calendar Year 2017

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

December 2018

December 2018

Dear Reader:

We are pleased to present the Pesticide Data Program's (PDP) 27th Annual Summary for calendar year 2017. 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 when pesticide residues are found on foods, they are nearly always at levels below the tolerances set by the U.S. Environmental Protection Agency (EPA).

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 human consumption, it is removed from the market.

The PDP tests a wide variety of domestic and imported foods, with a strong focus on foods that are consumed by infants and children. EPA relies on PDP data to conduct dietary risk assessments and to ensure that any pesticide residues in foods remain at safe levels. USDA uses the data to better understand the relationship of pesticide residues to agricultural practices and to enhance USDA's Integrated Pest Management objectives. USDA also works with U.S. growers to improve agricultural practices.

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.

The PDP works with State agencies representing all census regions of the country and approximately half of the U.S. population. In 2017, samples were collected and analyzed in California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, and Washington.

For more information about PDP, please visit our website at https://www.ams.usda.gov/datasets/pdp. For more information about pesticides and food, please visit EPA's website at http://www.epa.gov/safepestcontrol and FDA's website at http://www.fda.gov/Food/FoodborneIllnessContaminants/Pesticides.

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

Contents

Figures **Page No.**

Tables

Appendixes A-K

Acknowledgements

The States participating in the Pesticide Data Program (PDP) deserve special recognition for their contributions to the program. The dedication and flexibility of sample collectors allow the U.S. Department of Agriculture's (USDA) Agricultural Marketing Service (AMS) to adjust sampling protocols when responding to changing trends in commodity distribution and availability. PDP acknowledges the contributions of the State laboratories in providing testing services to the program and the USDA National Agricultural Statistics Service for providing statistical support. PDP also acknowledges the exceptional support of the Health Effects Division staff of the U.S. Environmental Protection Agency, Office of Pesticide Programs, and the U.S. Food and Drug Administration, Center of Food Safety and Nutrition, Office of Food Safety, in helping to set the direction for PDP.

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

USDA Program Administration

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

Ruihong Guo, Ph.D., Deputy Administrator
Science and Technology Program
(202) 720-8556, Facsimile (202) 720-6496

Monitoring Programs Division, AMS
1400 Independence Ave, SW
Room 0611-S, Stop 0276
Washington, DC 20250:
(202) 572-8167, Facsimile (202) 619-1724

Electronic-mail Address:

amsmpo.data@usda.gov

Website:

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

Participating State Agencies

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

Participating Laboratories

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

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

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

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

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

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

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

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

In memory of Diana Haynes

In August 2018, the Pesticide Data Program lost a wonderful leader, colleague and friend. Diana had been a part of the Pesticide Data Program from its inception in 1991, first working as a chemist at the Washington State Department of Agriculture to eventually becoming the Director of the program in 2014. Her knowledge of the Pesticide Data Program was unsurpassed. Diana will be greatly missed by all who have known and worked with her.

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 27th Pesticide Data Program summary presents results for samples collected in 2017.

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, EPA reviews studies on the pesticide to ensure 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. In setting the tolerance, EPA makes a safety finding that the pesticide can be used with a reasonable certainty of no harm by considering the toxicity of the pesticide, how much of the pesticide is applied and how often, how much of the pesticide remains in or on food by the time it is marketed and prepared, and all possible routes of exposure including use on crops, exposure from drinking water, and residential exposure. 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's 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. In 2017, sampling and/or testing program operations were carried out with the support of 10 States: California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, and Washington. These States had a prominent role in program planning and policy setting, particularly policies relating to quality assurance.

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, growing season, or organic labeling.

Fresh and processed fruit and vegetables accounted for 83.1 percent of the total 10,541 samples collected in 2017. Other samples collected included honey (3.0 percent), milk (6.7 percent), and bottled water (7.2 percent). Fresh and processed fruit and vegetables tested during 2017 were: applesauce, asparagus, cabbage, cranberries (fresh and frozen), cucumbers, garbanzo beans (canned), grapefruit, kale, lettuce, mangoes, olives (canned), onions, pineapple (canned), plums (dried/prunes), snap peas, sweet potatoes, and tomatoes (canned). Domestic samples accounted for 72.4 percent of the samples, while 26.0 percent were imports, 1.1 percent were of mixed national origin, and 0.5 percent were of unknown origin.

Because PDP data are mainly used for risk assessments, PDP laboratory methods are geared to detect the lowest 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 to 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 2017 and are too numerous to be included in their entirety in this summary. The PDP database file for 2017, along with annual summaries and database files for previous years, are available on the PDP website at http://www.ams.usda.gov/pdp or by contacting MPD.

In 2017, over 99 percent of the samples tested had residues well below the tolerances established by the EPA with 53 percent having no detectable pesticide residue. Appendixes B through F provide a distribution of residues by pesticide for the commodities tested. Excluding bottled water, residues exceeding the tolerance were detected in 0.59 percent (58 samples) of the total samples tested (9,785 samples). Of these 58 samples, 24 were domestic (41.4 percent), 32 were imported (55.2 percent), and 2 were of unknown origin (3.4 percent). Residues with no established tolerance were found in 3.3 percent (320 samples) of the total samples tested (9,785 samples). Of these 320 samples, 150 were domestic (46.9 percent) and 170 were imported (53.1 percent).

PDP is a voluntary program and is not designed for enforcement of tolerances. However, PDP informs the U.S. Food and Drug Administration and EPA if detected residues 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 F. More information on results is provided in the Sample Results and Discussion section of this 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.

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
CSV	Comma-Separated Values
EPA	U.S. Environmental Protection Agency
e-SIF	Electronic Sample Information Form
FAPAS	Food Analysis Performance Assessment Scheme
FDA	U.S. Food and Drug Administration
FQPA	Food Quality Protection Act
GAO	General Accountability Office
GC	Gas Chromatography
HCB	Hexachlorobenzene
ISO	International Organization for Standardization
LC	Liquid Chromatography
LOD	Limit of Detection
LOQ	Limit of Quantitation
MPD	Monitoring Programs Division
MRM	Multiresidue Method
MS	Mass Spectrometry
NASS	National Agricultural Statistics Service
NSL	National Science Laboratories
PDP	Pesticide Data Program
PPS	Probability proportionate-to-size
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
SIF	Sample Information Form
SOP	Standard Operating Procedure
SQL	Structured Query Language
USDA	United States Department of Agriculture

Pesticide Data Program (PDP)
Annual Summary, Calendar Year 2017

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's (USDA) Agricultural Marketing Service (AMS) initiated the Pesticide Data Program (PDP) in 1991 to collect data on pesticide residues in food, and the program 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). EPA establishes the tolerances after developing a risk assessment that considers the following: the pesticide exposure through diet and drinking water and from uses in and around the home; the cumulative exposure to two or more pesticides that cause a common toxic effect; the possibility of increased susceptibility to infants and children or other sensitive subpopulations from exposure to the pesticide; and the possibility that the pesticide produces an effect in people similar to an effect produced by a naturally occurring estrogen or produces other endocrine disruptions. PDP data also are used by the U.S. Food and Drug Administration (FDA) to assist in planning commodity surveys for pesticide residues for its enforcement and regulatory programs.

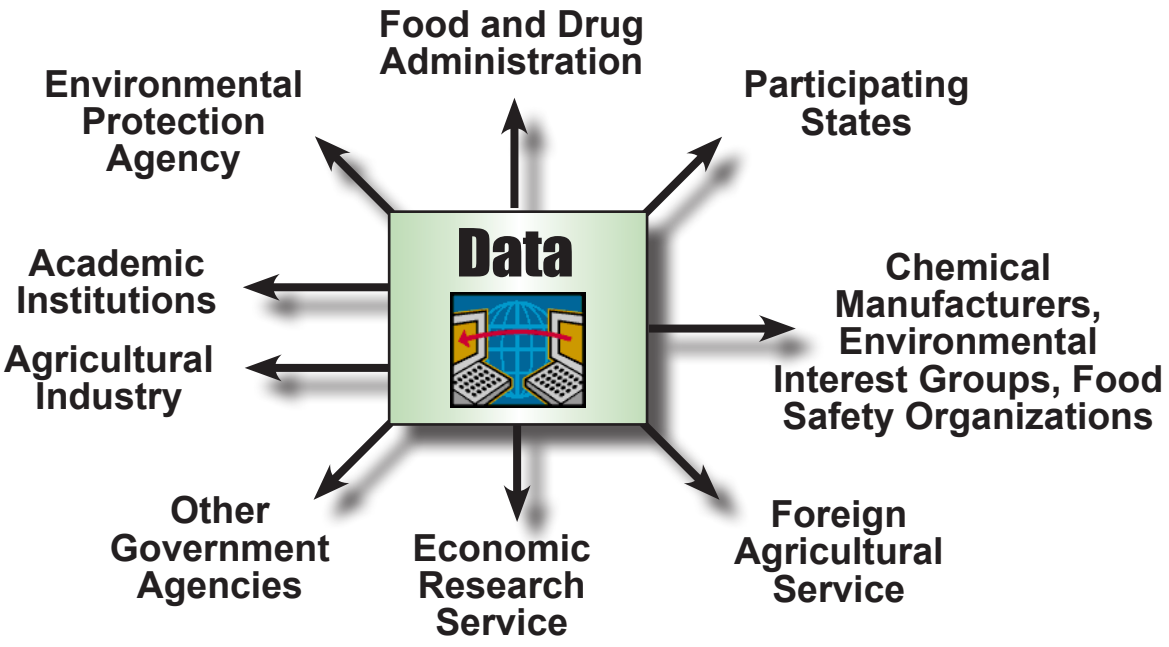
Because PDP collects data on food commodities primarily for consumer exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. Commodities chosen for inclusion in the program are based on EPA data needs. PDP samples are collected closer to the point of consumption and are prepared emulating consumer practices. PDP sampling 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 Pesticide Residues recognizes PDP methodologies as official and validated methods for the determination of pesticide residues in foods.

In 2017, sampling services were provided by 10 States (California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, and Washington). Laboratory services were provided by the States of California, Florida, Michigan, New York, Ohio, Texas, and Washington, along with the AMS National Science Laboratories (NSL). 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 four 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. 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

(a) PDP Policy and Planning Contributions



(b) PDP Data Users

Figure 1. Pesticide Data Program (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 2017, USDA's Agricultural Marketing Service established cooperative agreements with 10 States to sample and/or test Pesticide Data Program commodities. Together, these States represent about 50 percent of the Nation's population and all four census regions of the United States. These States are the major U.S. producers of fruit and vegetables. State laboratories were responsible for analyzing fresh and processed fruit and vegetable samples. The USDA National Science Laboratory analyzed the honey samples.*

years. High-consumption fresh fruit and vegetable commodities remain in the program for 2 years to capture two full growing seasons, thereby capturing any changes due to seasonality or year-to-year variations. Processed products, 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 2018.

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 2017, 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.

[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.

Pesticides screened by PDP include those with current registered uses for the commodity being tested and compounds for which toxicity data and preliminary estimates of dietary exposure indicate the need for more extensive residue data. PDP also monitors pesticides for which EPA has modified use directions (i.e., reduced application rates or frequency) as part of risk management activities. In addition, PDP tests for selected pesticides that may not have U.S. tolerances but are used in other countries that export commodities to the United States. The following appendixes list the specific pesticides tested in the program: fruit and vegetables (Appendix B), honey (Appendix C), milk (Appendix D), and bottled water (Appendix E). Environmental contaminants, or pesticides whose uses have been canceled in the United States but their residues persist in the environment, are consolidated into Appendix F, which summarizes findings for these chemicals across all commodities.

II. Sampling Operations

♦ Conceptual Framework

The goal of the PDP sampling program is to obtain a statistically valid 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.

Ten States currently participate in PDP – California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, and Washington. The initial participating States in 1991 (California, Florida, Michigan, New York, Texas, and Washington) were selected based on agricultural production, analytical capabilities, population, and regional/geographic distribution – all four U.S. Census Regions (West, South, Midwest, and Northeast) were represented. Later in 1993, Colorado joined to represent the Mountain Division of the Western Region and Ohio to further represent the densely populated East North Central Division of the Midwest Region. In 1993, North Carolina was included to better represent the South Atlantic Division of the Southern Region. Maryland was added in 1997 to represent the South Atlantic Division of the Southern Region. Today, these States together represent about 50 percent of the Nation's population and all four census regions of the United States.

Commodities chosen for inclusion in the program are based on EPA data needs. Foods selected for testing are high-consumption items with a strong focus on foods that are highly consumed by infants and children. Each fresh commodity is sampled and tested for 2 years in order to capture annual and seasonal variability. High-consumption items are rotated in and out of the program every 5 years – for example, apples, lettuce, and oranges are retested and the data refreshed every 5 years.

PDP collects a minimum of 600 samples per commodity per year in order to provide an accurate statistical representation for a given commodity. PDP collects additional samples to allow apportionment among the participating States over a 12-month period and to allow for a small sample overage for any missed, damaged, or unusable samples. Participating State population figures are used to apportion the number of samples scheduled for collection each month. PDP sampling operations may be adjusted according to product availability. For example, cherries, nectarines, and peaches may be oversampled during the summer months to make up for low availability during winter months. In some cases, frozen product is allowed as an alternative to fresh (e.g., cranberries).

PDP samples are collected at terminal markets and warehouse distribution centers, close to the point of consumption. Participating State agencies compile and maintain lists of these sampling sites. In 2017, over 600 sites granted access to sample collectors. The States provide AMS and NASS with annual volume information for commodities distributed at these sites. Based on this information, sites are assigned volume indicators compared to other sites in the same State. This volume indicator is used to ensure larger sites are selected more frequently than smaller 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. This site selection method, termed probability-proportionate-to-size (PPS), then results in the larger site being 10 times more likely to be selected for sampling than the smaller site.

Each participating State works 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.

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.

♦ Sampling Procedures

While obtaining PDP samples, collectors randomly select the scheduled commodities. Collectors use established procedures to prevent cross-contamination and maintain chain-of-custody. 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. PDP sampling SOPs are available on the website: www.ams.usda.gov/pdp. On a quarterly basis, sample collectors are provided with Commodity Fact Sheets that list specific collection details for the individual commodities in 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 by overnight delivery. Non-refrigerated processed commodities such as canned olives are often shipped by ground transportation to reduce shipping costs.

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; expiration date; and grower, packer, and/or distributor locations. The e-SIFs are sent electronically 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.

Because most PDP samples are collected at distribution centers, terminal markets, and other wholesalers, entire cases must be obtained while a significantly smaller portion is sent to the laboratory for testing. For example, if a 20-pound case of apples is collected and a 5-pound sample is sent for testing, the remaining 15 pounds are donated. In most cases, the excess samples are donated to organizations such as local food banks, shelters, senior assisted living centers, churches, and other charities. PDP often provides the only fresh commodity donations available to these organizations. As a specific example, the State of Michigan donated over 18,000 pounds of produce to the Greater Lansing Food Bank during 2017.

♦ 2017 Sampling Operations

The number of fruit, vegetable, honey, milk and bottled water samples collected in each participating State is determined by State population. The quarterly collection schedule for all 2017 commodities is shown in Table 1. 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. In 2017, excluding bottled water, 6.2 percent of the tested samples were organic (609 of 9,785).

State population figures are used to assign the number of fruit, vegetable, and other specialty samples scheduled for collection each month. During 2017, the monthly number of samples assigned for each State included: California, 13; Colorado, 2; Florida, 7; Maryland, 4; Michigan, 6; New York, 9; Ohio, 6; Texas, 8; and Washington, 4. This schedule resulted in a monthly target of 59 samples per commodity, or 708 samples per commodity per year. Additionally, North Carolina collected 4 samples per month for selected commodities - applesauce, fresh and frozen cranberries, cucumbers, honey, lettuce, canned olives, canned pineapple, dried plums (prunes), canned tomatoes, canned garbanzo beans and bottled water, which resulted in a total of 63 samples per commodity per month for these products.

In 2017, fruit, vegetable, honey, milk and bottled water samples 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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Applesauce					Sep-17
Asparagus					Jun-19
Cabbage					Jun-19
Cranberries, Fresh/Frozen					Sep-18
Cucumbers					Jun-17
Garbanzo Beans, Canned					Sep-18
Grapefruit					Sep-17
Honey					Aug-17
Kale					Dec-18
Lettuce					Jun-17
Mangoes					Sep-18
Milk					Dec-17
Olives, Canned					Sep-18
Onion					Dec-17
Pineapple, Canned					Dec-17
Plums, Dried (Prunes)					Sep-18
Snap Peas					Dec-18
Sweet Potatoes					Mar-18
Tomatoes, Canned					Sep-17
Water, Bottled					Dec-17

Table 1. Pesticide Data Program (PDP) Commodity Collection Schedule for 2017. *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 2018).*

State	AS	CA	CG	CU	GF	GK	LT	MA	ON	SN	SW	Total Fresh
California	78	50	78	78	118	156	78	39	156	156	149	1,136
Colorado	12	13	12	12	18	24	12	6	24	24	24	181
Florida	42	40	42	42	57	85	42	22	84	86	84	626
Maryland	24	17	24	24	36	48	24	12	48	48	48	353
Michigan	36	18	36	36	54	72	36	18	72	72	72	522
New York	54	31	54	54	81	108	54	27	108	108	108	787
N. Carolina		13		24			24					61
Ohio	36	43	36	36	54	72	36	17	72	72	72	546
Texas	46	61	48	48	72	95	48	24	96	96	96	732
Washington	24	25	24	24	36	48	24	12	48	48	48	361
TOTAL	354	311	354	378	526	708	378	177	708	710	701	5,305

State	AC	AZ	NC	OL	PD	TC	ZB	Total Processed	Total Fresh & Proccessed F&V	Honey HY	Dairy Milk MK	Water WB
California	117	104	156	156	39	117	39	728	1,864	65	156	156
Colorado	18	9	23	24	6	18	6	104	285	10	24	24
Florida	63	45	85	85	22	63	21	384	1,010	35	85	84
Maryland	36	31	47	48	12	35	12	221	574	20	48	48
Michigan	54	55	72	72	18	54	18	343	865	30	72	72
New York	81	77	108	108	27	81	27	509	1,296	45	108	108
N. Carolina	36	19	48	48	13	36	12	212	273	20		48
Ohio	57	29	74	69	18	54	18	319	865	30	74	72
Texas	72	35	95	96	24	72	24	418	1,150	40	96	96
Washington	36	24	48	48	12	36	12	216	577	20	48	48
TOTAL	570	428	756	754	191	566	189	3,454	8,759	315	711	756

Commodity Legend		
AC = Applesauce	GK = Kale	ON = Onions
AS = Asparagus	HY = Honey	PD = Plums, Dried (Prunes)
AZ = Cranberries, Frozen	LT = Lettuce	SN = Snap Peas
CA = Cranberries, Fresh	MA = Mangoes	SW = Sweet Potatoes
CG = Cabbage	MK = Milk	TC = Tomatoes, Canned
CU = Cucumbers	NC = Pineapple, Canned	WB= Water, Bottled
GF = Grapefruit	OL = Olives, Canned	ZB = Garbanzo Beans, Canned

Table 2. Distribution of Samples Collected by Each Participating State. *This table includes those commodities collected at terminal markets, distribution centers, and retail markets.*

Commodity	Acceptable Products
Applesauce	Processed applesauce; regular or chunky; sweetened/unsweetened/lite varieties. Containers may be plastic, glass, or cans; however, plastic or cans are preferred because of potential breakage with glass.
Asparagus	Fresh green, purple, or white asparagus spears.
Cabbage	Fresh, whole head cabbage (green, red, or curly/Savory); Napa cabbage (celery cabbage, tightheaded Chinese cabbage).
Cranberries	Fresh whole cranberries, pre-bagged or loose. Fresh are preferred, but frozen are acceptable.
Cranberries, Frozen	Frozen cranberries. Individually quick frozen (IQF) or frozen in own juices.
Cucumbers	Fresh cucumbers. Common, English, burpless, garden, hothouse, seedless, Japanese, or Kirby.
Garbanzo Beans, Canned	Canned whole garbanzo beans (chickpeas).
Grapefruit	Any fresh, whole grapefruit. Pink, red, or white fleshed.
Honey	100% Pure Honey; blossom flavored honey; creamed honey; honey with honeycomb in the jar.
Kale	Fresh kale. Curly, Lacinato, Dinosaur, Tuscan, Red Russian, or Siberian kale. Whole leaf, sliced, cut or chopped. Pre-bagged or loose.
Lettuce	Leaf and head (wrapped or unwrapped) lettuce.
Mangoes	Fresh, whole mangoes.
Milk	Whole milk; pasteurized; Vitamin A and/or D fortified. Container may be glass if plastic or carton is not available.
Olives, Canned	Canned, pitted black olives. Whole, sliced, chopped, crushed, or diced.
Onions	Any fresh, whole bulb onion. Yellow, white, or red.
Pineapple, Canned	Canned pineapple. Slices, half-slices, broken slices, spears, tidbits, chunks, cubes, or crushed. Canning liquid may be syrup (heavy, light, extra light), pineapple juice, or water.
Plums, Dried (Prunes)	Dried, pitted plums/prunes. Potassium sorbate, sunflower oil, and medium chain triglycerides are acceptable products.
Snap Peas	Any fresh, whole edible podded pea. Snap pea, sugar pea, sugar snap pea, snow pea (Chinese pea), or stringless sugar pea.
Sweet Potatoes	Fresh, whole sweet potatoes. No individual size requirements.
Tomatoes, Canned	Canned tomatoes. Whole, peeled, diced, stewed, puree, or crushed.
Water, Bottled	Spring water, artesian water, well water, fluoridated water, oxygenated water, filtered water, drinking water, purified water, distilled water, pure water, and ground water. Baby bottled water (bottled water used for infant formula) also acceptable.

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

commodity is selected in the rear storage area of the retail facility so possible contamination by the consumer is eliminated and to allow capture of sample information from product boxes. In 2017, 41.0 percent of fruit, vegetable, honey, milk, and bottled water samples were collected at proxy sites. The commodities most often collected at these facilities were applesauce, fresh and frozen cranberries, canned garbanzo beans, honey, milk, canned olives, canned pineapple, dried plums (prunes), canned tomatoes, and bottled water.

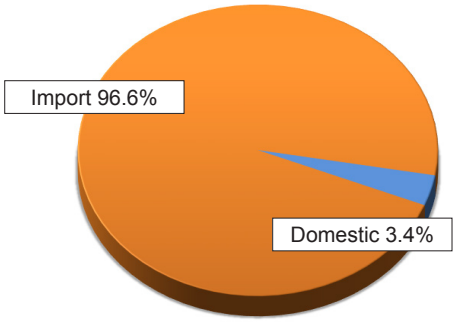
The total number of samples per commodity and the percentage of each that were either domestic, imported, or of unknown origin are shown in Figure 3. The origin of some fresh commodities can vary greatly throughout the year. A graphic example of this variation can be found in Figure 4, where differences in origin (domestic versus import) are depicted by month for snap pea samples. Fresh and processed fruit, vegetable, honey, milk, and bottled water samples originated from 45 States and 36 foreign countries (refer to Appendix G).

♦ Fresh and Processed Commodities

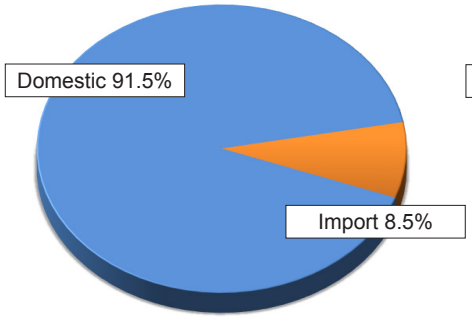
Of all samples collected and analyzed in 2017, 83.1 percent (8,759 of 10,541) were fruit and vegetables,

A. Fresh Fruit and Vegetable Samples

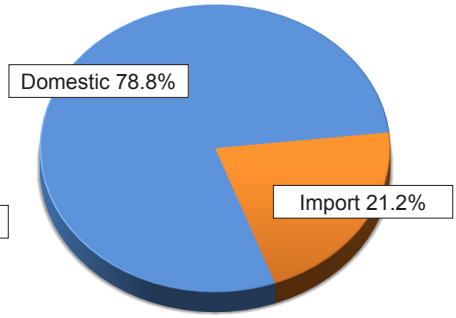
Asparagus (354 Samples)



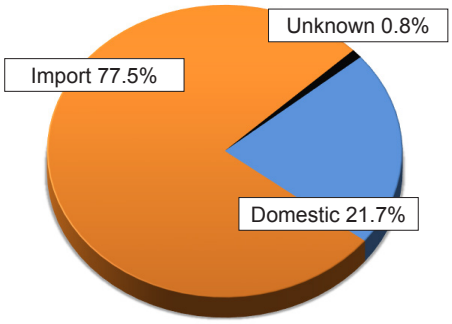
Cabbage (354 Samples)



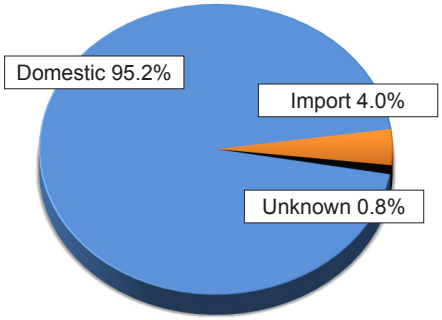
Cranberries (311 Samples)



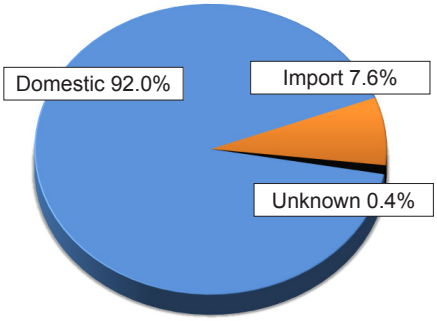
Cucumbers (378 Samples)



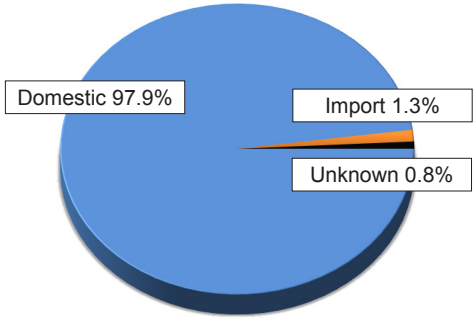
Grapefruit (526 Samples)



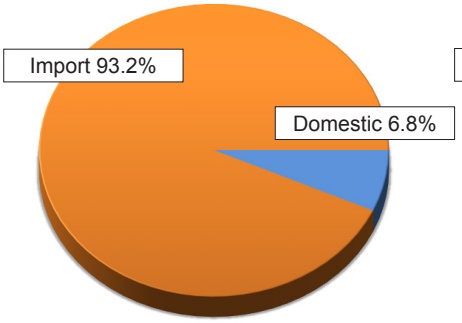
Kale (708 Samples)



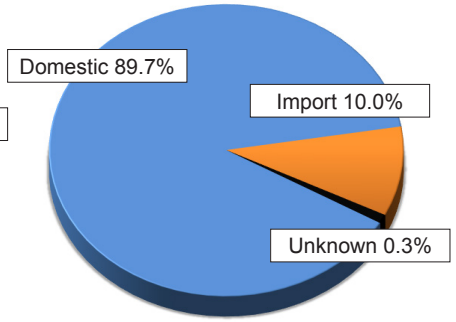
Lettuce (378 Samples)



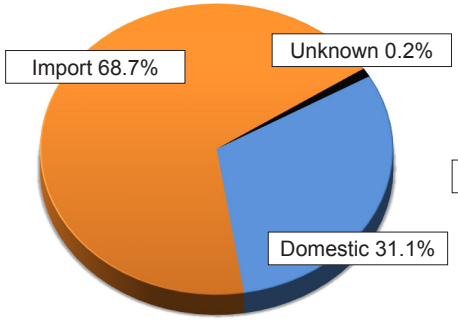
Mangoes (177 Samples)



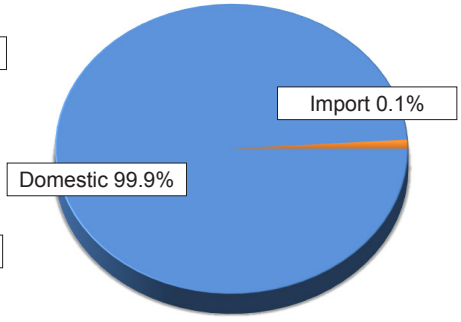
Onions (708 Samples)



Snap Peas (710 Samples)



Sweet Potatoes (701 Samples)



B. Processed Fruit and Vegetable Commodities

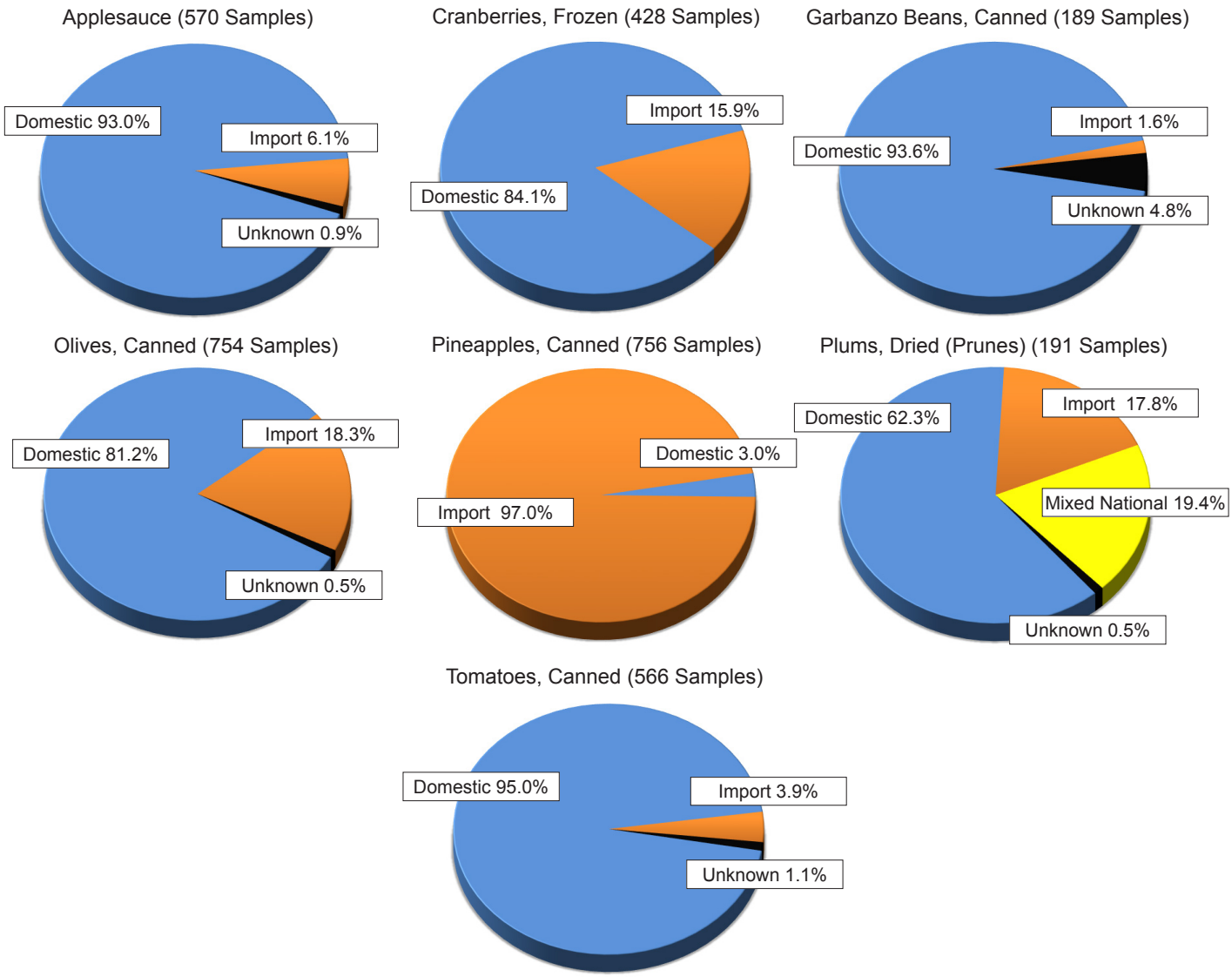


Figure 3. Commodity Origin. *This figure depicts the proportion of commodity origin (domestic, import, unknown, and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2017.*

including fresh and processed products. The fresh commodities collected for PDP were asparagus, cranberries, cabbage, cucumbers, grapefruit, kale, lettuce, mangoes, onions, snap peas, and sweet potatoes. The processed commodities included applesauce, frozen cranberries, canned pineapple, canned olives, dried plums (prunes), canned tomatoes, and canned garbanzo beans. Fresh and frozen fruit and vegetable samples weighed either 3 or 5 pounds except for cranberries and snap peas where the sample sizes were 1 pound. Three pounds were collected for smaller, low-weight commodities such as asparagus and onions, and 5 pounds were collected for larger, high-weight commodities such as grapefruit and sweet potatoes.

♦ Honey

PDP collected and analyzed 315 honey samples in 2017. Samples, comprised of 12- to 32-ounce containers of 100 percent pure honey, were collected from routine PDP sampling sites that included major chain-store distribution centers, terminal markets, and proxy sites. About 67 percent of the samples were collected from proxy sites. Clover honey, other blossom-flavored honey (such as alfalfa, orange blossom, tupelo, lavender, rosemary, etc.), creamed honey, and honey with honey combs in the jar were collected. Imitation honey (made from rice or corn syrup), solid comb honey, and honey with added flavors were excluded. Distribution of residues

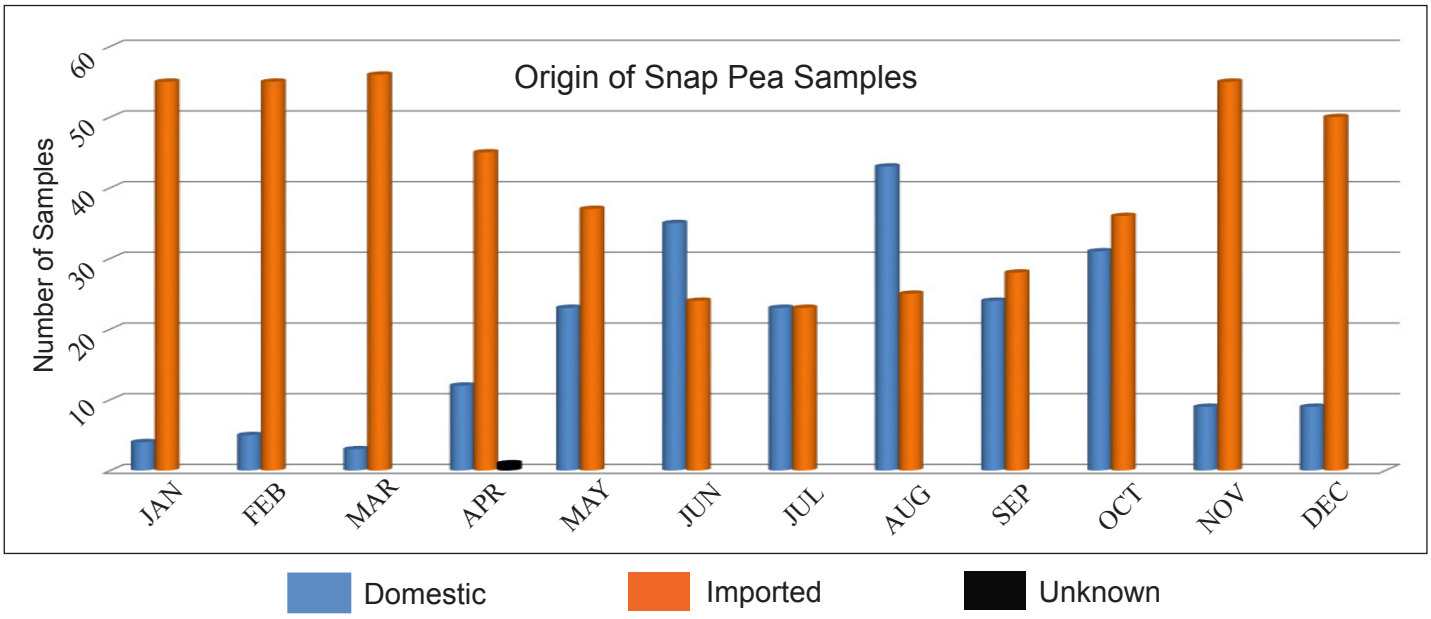


Figure 4. Origin of Selected Fresh Commodity: Snap Pea Samples. *Differences in origin (domestic vs. import) are illustrated by month.*

in honey may be found in Appendix C. Pesticide residue analysis was performed by the USDA's NSL located in Gastonia, NC.

♦ Milk

PDP collected and analyzed 711 milk samples in 2017. One-quart samples were collected from routine PDP sampling sites that included major chain-store distribution centers, terminal markets, and proxy sites. About 67 percent of the samples were collected from proxy sites. All the milk samples were domestic. Only whole pasteurized milk samples were collected. Reduced fat milk (1% or 2%), flavored milk (chocolate, strawberry), ultra-high temperature pasteurized milk (not requiring refrigeration), and any milk other than cow's milk were excluded. Distribution of residues in milk may be found in Appendix D. Pesticide residue analysis was performed by the California Department of Food and Agriculture laboratory located in Sacramento, CA.

♦ Bottled Water

PDP collected and analyzed 756 bottled water samples in 2017. Two-liter samples were collected from routine PDP sampling sites that included major chain-stores distribution centers, terminal markets, and proxy sites. About 67 percent of the samples were collected from proxy sites. Seltzer, flavored, mineral, carbonated, sparkling and sweetened water were excluded. Distribution of residues in bottled water may be found in Appendix E. Pesticide residue analysis was performed by the New York Department of Agriculture and Markets laboratory located in Albany, NY.

♦ Sampling Limitations

Ten States from all four census regions of the United States participate in PDP. The States that participate account for about 50 percent of the U.S. population and the major agricultural production areas of the country, making them representative of the United States as a whole.

PDP collects samples from over 600 distribution centers and terminal markets within the participating States. The total number of distribution centers and terminal markets within the participating States is difficult to establish since existing sites may go out of business or merge and new sites may open during the course of the year. However, sites within the States that participate do not differ significantly from those that do not participate. Since these sites are similar throughout the State, they are representative of all sites in the State.

Sometimes it is necessary to replace the site that was originally selected using PPS. In those cases, an alternate site is selected by the State personnel to replace the original site. Whenever possible, a site of similar size in the same region as the original site is chosen as the replacement. Additionally, the availability of a specific commodity may necessitate a change in site selection. For example, lettuce may be collected from an alternate site if the primary site is out of stock.

In 2012, the General Accountability Office (GAO) recommended that PDP determine measures of sampling error for reported estimates of pesticide residue levels and communicate that data to the public. NASS performed this analysis and the results for a selected commodity/pesticide pair, lettuce/imidacloprid, are presented in Table 4. Lettuce was sampled and tested by PDP from 2015-2017 and the analyses depicted in this table are for pesticide residue results from 2015-2016.

The percentile estimates in Table 4 are obtained from a design-based approach using historical patterns of site selection to estimate sampling weights. The percentile estimates for the commodity/pesticide pair presented are at the national level, over the span of the most recent sampling cycle for the commodity in question. Confidence intervals for the percentile estimates are based on estimates of the standard error using the Woodruff Method where applicable. The delete-one jackknife procedure is used to estimate the standard error when the Woodruff Method is not applicable. As would be expected, standard error estimates are generally larger for higher quantiles. The Woodruff method and the delete-one jackknife produce comparable standard errors for all quantiles estimated.

III. Laboratory Operations

♦ Overview

Seven State laboratories and one USDA laboratory 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. Laboratory scientists continually test new technologies and develop new techniques to improve the levels of detection. Any major change in methodology and/or instrumentation is evaluated and its soundness demonstrated and documented by means of method validation modules in accordance with PDP SOPs.

Percentile Results for Lettuce/Imidacloprid (Woodruff Method)

Quantile	Estimate (ppm)	Standard Error	Lower 95% Confidence Limit	Upper 95% Confidence Limit
50%	0.00150	0.00072	0.00008	0.00292
90%	0.01514	0.00179	0.01162	0.01867
95%	0.01970	0.00112	0.01751	0.02189
99%	0.03089	0.00284	0.02531	0.03647

Number of Sample Points = 846

Percentile Results for Lettuce/Imidacloprid (Jackknife Method)

Quantile	Estimate (PPM)	Standard Error	Lower 95% Confidence Limit	Upper 95% Confidence Limit
50%	0.00150	0.00187	-0.00217	0.00517
90%	0.01514	0.00139	0.01241	0.01788
95%	0.01970	0.00091	0.01790	0.02149
99%	0.03089	0.00612	0.01888	0.04290

Number of Sample Points = 846

Table 4. Quantile Estimates for Lettuce/Imidacloprid. *Presented here are the quantile estimates and standard errors for imidacloprid in lettuce as determined based on pesticide residue results from samples collected during 2015-2016. The Woodruff method and delete-one Jackknife method produce comparable standard errors for all quantiles estimated.*

♦ Fresh and Processed Commodities

A total of 8,759 fresh and processed fruit and vegetable samples were tested for 512 parent pesticides, metabolites, degradates, and/or isomers, plus 21 environmental contaminants using Multi-Residue Methods (MRMs). Pesticides screened by PDP include those with current registered uses for the commodity being tested and compounds for which toxicity data and preliminary estimates of dietary exposure indicate the need for more extensive residue data.

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). 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.

Each sample is prepared according to the procedures detailed in Table 5, which lists the steps for preparing each commodity for analysis as defined in the Laboratory Sample Processing and Analysis SOP. For all commodities, the sample is chopped, mixed, or blended until a visually homogeneous mixture is attained.

Samples are 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 vegetable samples, testing laboratories use various Quick, Easy, Cheap, Effective, Rugged and Safe (QuEChERS)-based approaches.[2] All MRMs are determined, prior to use and through appropriate method validation procedures, to produce equivalent data for PDP analytical purposes.

PDP laboratories 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.

♦ Honey

USDA's NSL tested 315 samples of honey. A total of 198 parent pesticides, metabolites, degradates and/or isomers, plus 1 environmental contaminant were screened in honey samples. Samples were prepared according to the procedures detailed in Table 5. Samples were extracted using modifications of the QuEChERS method, and analyses were performed using GC-MS/MS and LC-MS/MS.

♦ Milk

The California Department of Food and Agriculture laboratory tested 711 samples of pasteurized whole milk from cows. A total of 420 parent pesticides, metabolites, degradates and/or isomers, plus 18 environmental contaminants were screened in milk samples. Samples were prepared according to the procedures detailed in Table 5. Samples were extracted using modifications of the QuEChERS method, and analyses were performed using GC-MS/MS, and LC-MS/MS.

♦ Bottled Water

The New York Department of Agriculture and Markets laboratory tested 756 samples of bottled water. A total of 166 parent pesticides, metabolites, degradates and/or isomers, plus 13 environmental contaminants were screened in bottled water samples. Upon arrival at the testing facility, bottled water samples were visually examined for acceptability and discarded if determined to be damaged. Samples were held at room temperature until the entire sample set was ready for analysis. Samples were prepared according to the procedures detailed in Table 5. Samples were extracted using a modified solid

[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.

Commodity	Sample Preparation Steps
Applesauce	If the sample is comprised of a single container, simply weigh appropriate analytical portion. If the sample is comprised of multiple containers, combine and mix enough containers to achieve the specified sampling size (48 ounces) and weigh appropriate analytical portion.
Asparagus	Remove an inch or two of the woody stem, if inedible. Wash and drain.
Cabbage	Visually examine the head, and remove wrapper, damaged, or wilted leaves, and the core. Rinse, turn the head top side down to drain.
Canned Products: Garbanzo Beans, Olives, Pineapples, Tomatoes	If the lid of the can has visible dirt or dust, rinse the lid under cold running tap water for 5 to 10 seconds. Dry the lid with a paper towel. Open each can and pour the entire contents of each can including the liquid into a blender/homogenizer.
Cranberries	Wash by the handful or by using a colander and drain.
Cucumbers	Wash and drain. Cucumbers may be halved or quartered to facilitate homogenization.
Frozen Product: Cranberries	The samples may be chopped while frozen, or to prevent damage to the chopper/homogenizer blades, the sample may be thawed in a refrigerator or in a room temperature water bath. Open the containers and pour the entire contents into the chopper/homogenizer.
Grapefruit	Peel each fruit and remove any excess white membrane.
Honey	If the sample is comprised of a single container, simply weigh appropriate analytical portion. If the sample is comprised of multiple containers, combine and mix enough containers to achieve the specified sampling size (12 to 32 ounces) and weigh the approproate analytical portion.
Kale	Visually examine the sample and remove only the damaged or wilted leaves and any woody stems. Wash and drain. Note: Bagged pre-washed kale do not require washing.
Lettuce - Head	Visually examine the head and remove wrapper and damaged or wilted leaves. Rinse and turn the head top side down to drain.
Lettuce - Leaf	Visually examine the sample and remove only the damaged or wilted leaves and any woody stems. Wash and drain.
Mangoes	Wash and drain. Do not remove peel. Remove stem if present. Cut the mango around the pit to remove it, being careful to remove as little of the meat as possible.
Milk	If the sample is comprised of a single container, simply weigh appropriate analytical portion. If the sample is comprised of multiple containers, combine and mix enough containers to achieve the specified sampling size (1 quart) and weigh appropriate analytical portion.
Onions	Remove top outer layer, the first white layer and membrane, and any other inedible portions. Remove root portion last to minimize fumes. Wash and drain.
Plums, Dried (Prunes)	Open all of the dried fruit package(s) into a container and mix or shake to obtain a representative analtyical portion. Add enough water to cover the analytical portion and soak with water until re-hydrated. Prepare for extraction.
Snap Peas	Wash and drain. Remove inedible portion(s). Note: Bagged pre-washed, ready-to-eat, and steam in a bag snap peas do not require washing.
Sweet Potatoes	Hold each sweet potato under cold running tap water and gently scrub the entire surface with a clean vegetable brush to remove any loose soil and grit (remove any woody stems if present). Wash and drain.
Water, Bottled	Visually examine bottles for leakage.

Table 5. Sample Preparation Steps for Analysis. *This table lists the steps for preparing each collected commodity for analysis as defined in the Laboratory Standard Operating Procedure. The wash and drain steps refer to a wash under cold running water for approximately 15-20 seconds to assure that all surfaces are rinsed, then a drain for at least 2 minutes. For all commodities, the sample is chopped, mixed, or blended until a visually homogeneous mixture is attained.*

phase extraction method developed by the Montana Department of Agriculture and analyses were performed using GC-MS/MS and LC-MS/MS.

♦ 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 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 guidelines for laboratory operations and data analyses. The SOPs are revised annually to accommodate changes in the program and are aligned with International Organization for Standardization (ISO)[3] requirements. PDP laboratories are accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA), an internationally recognized accrediting body.

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. MPD staff conduct a final review of 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/confirmation is performed using 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 used 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, honey, and milk, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity. For bottled water reagent blanks, the amount of distilled water was equal to sample volume.

• 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 the 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

[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.

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 2017, PDP laboratories quantitated a total of 78,179 matrix spikes, with an overall mean recovery of 96.4 percent and an overall 23 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 2017, PDP laboratories quantitated a total of 25,880 process controls on 10,541 samples, with an overall mean recovery of 100 percent and an overall 19 percent C.V. Of these process controls, 83 (0.32 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 the international Food Analysis Performance Assessment Scheme (FAPAS), administered by the Food and Environment Research Agency, Sand Hutton, York, United Kingdom. In 2017, PDP laboratories that routinely analyze fruit and vegetable samples via MRMs participated in one FAPAS round for apple purée that contained 10 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 2017, PDP laboratories received two multi-residue fruit and vegetable PT rounds (nectarines and cabbage), each consisting of three test samples. The nectarine samples were fortified with a total of 10 different compounds with trifluralin spiked on 2 different samples. The cabbage samples were fortified with a total of 12 different compounds with carbofuran spiked on 2 different samples at the same level to evaluate within and between laboratory variability.

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 with PDP SOPs and provide a report of findings identifying potential areas of improvement. 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 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 pathway 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 on USDA servers. 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 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 MPD staff for import 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.

MPD staff chemists review the data online and then 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 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.

♦ Online Database Search Tool

An online PDP Database search tool is available for public use. The search tool allows anyone with internet access to search for PDP pesticide residue findings on commodities tested across all published years. Search criteria are selected from lists of all reported commodities, pesticides, and survey years. One of five output preferences is selected to show individual residue findings or summary data. The generated dataset can be exported to a comma-separated values (CSV) file. The search tool can be reached from any PDP website page or directly at https://apps.ams.usda.gov/pdp.

V. Sample Results and Discussion

♦ Overview

In 2017, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, honey, milk, and bottled water. Of the 10,541 samples analyzed, 8,759 were fresh and processed fruit and vegetable samples, 315

SAMPLE COLLECTION

- Collection in 10 States
- Samples taken close to consumer consumption
- Standardized sample information forms
- Data entry on tablet/laptop computers

LABORATORY ANALYSIS

- 7 State laboratories, 1 Federal laboratory
- Fruit and vegetable samples prepared for consumption
- Detect residues at low levels
- Pesticide residue data generated
- Multi-tiered quality assurance data review process

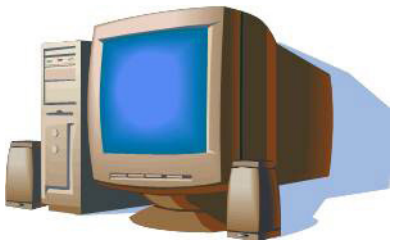
LABORATORY REMOTE DATA ENTRY (RDE)

- 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 & ad hoc reporting
- Annual Summary
- Data available online

Figure 5. Pesticide Data Program (PDP) Data Pathway. *An illustration of PDP data path from sample collection through laboratory analysis and reporting.*

were honey, 711 were milk samples and 756 were bottled water, respectively. PDP testing methods are designed to detect the lowest possible levels of pesticide residues. In 2017, over 99 percent of the samples tested had residues well below the tolerances established by the EPA with 53.0 percent having no detectable pesticide residue. The data reported by PDP corroborate that residues found in agricultural products sampled are at levels that do not pose risk to consumers' health and are safe according to EPA and FDA.

Appendix B tabulates the distribution of residue results for fruit and vegetables. Information included in this appendix are: number of samples analyzed for each compound, number and percent of samples with detections, range of concentrations detected, range of analytical LODs, and EPA tolerance levels. Appendixes C, D and E provides the distribution of residues for honey, milk, and bottled 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, these contaminants can be taken up by plants. Appendix F 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 United States. These compounds are subject to FDA Action Levels (ALs), rather than tolerances. Because environmental contaminants continue to persist in the environment, they may be present in food commodities at generally low levels.

Most of the collected and analyzed samples (72.4 percent) were produced in the United States, 26.0 percent were imports, 1.1 percent were of mixed national origin, and 0.5 percent were of unknown origin. Appendix G shows the distribution of sample origin by State or country. Of all samples collected and analyzed, approximately 23.6 percent (2,490 of 10,541) were grown, packed, and/or distributed in or from California. Appendix H includes a comparison of residues for a select commodity 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. All individual sample data can be downloaded from the PDP website at http://www.ams.usda.gov/pdp or obtained by contacting MPD.

♦ 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 2017. 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 grapefruit (95.2 percent); lettuce (97.9 percent); sweet potatoes (99.9 percent); and canned tomatoes (95.0 percent) with only minor import (4.0 percent, 1.3 percent, 0.1 percent, and 3.9 percent, respectively) and unknown origins (0.8 percent, 0.8 percent, 0 percent, and 1.1 percent, respectively). Other fresh commodities, such as snap peas, are available from domestic growers part of the year and imported during the remaining months, as illustrated in Figure 4.

Comparison of selected residues detected in imported versus domestic snap peas can be found in Appendix H. These sample sets were selected to compare data where residues are present in greater than 5 percent of the commodity samples 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 data in Appendix H illustrate that some residues were detected more frequently in imported samples, some were detected more frequently in domestic samples, and some were detected with relative equal frequency in domestic and imported samples. For example, the insecticide cyhalothrin (lambda) was detected in 39.0 percent of the snap pea samples from Guatemala, 2.0 percent from Mexico, and 12.2 percent of the U.S. samples. In contrast, the herbicide DCPA was detected in 22.6 percent of the snap pea samples from the United States and 2.0 percent of the samples from Mexico. No DCPA was detected in Guatemalan samples. The insecticide cypermethrin was detected in 14.0 percent of the snap pea samples from the United States, 17.9 percent of the samples from Mexico, and 10.2 percent of the Guatemalan samples showing nearly equal detection rates between domestic and imported samples.

All pesticides detected were registered in the United States; however, the profiles of residue findings were markedly different in the U.S. samples versus imported samples. The differences in residue detections between countries were likely due to the pesticides used in response to pest pressures based on differing environmental and climatic conditions as well as crop production and protection practices.

♦ 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 registered pesticides are used at the same time or location. Over 99 percent of the samples tested had residues below the tolerances established by the EPA, while 53 percent of the samples tested had no detectable pesticide residue. This is critical information for consumers wanting to understand the relationship of on-farm pesticide use to human health concerns, and whether food sold at the market place is safe to consume. 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 United States and overseas. Thus, in evaluating consumer exposure to pesticides through the diet, EPA uses all available information provided by registrants, PDP, and others to verify that tolerances meet the safety standards set by FQPA. The reporting of residues present at levels below the established tolerance serves to ensure and verify the safety of the Nation's food supply.

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

By virtue of the MRMs employed, PDP provides critical 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 2017 is presented in Appendix J. These data indicate that 53.0 percent of all samples tested contained no detectable pesticides, 19.5 percent contained one pesticide, and 27.5 percent contained more than one 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 F, have been excluded from this count of pesticides.

Three samples of kale (2 from California and 1 imported from Mexico) contained residues of 17 pesticides. None of the residues found on the kale samples exceeded the established tolerances.

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

Honey: USDA's NSL laboratory conducted testing for pesticide residues on 315 honey samples. Six residues (including metabolites and isomers), representing six pesticides, were detected in honey (Appendix C). The most frequently detected residue was 2,4-dimethylphenyl formamide (2,4-DMPF), a metabolite of the pesticide amitraz, which was detected in 238 samples (75.6 percent). Thymol was detected in 43 samples (13.7 percent), alachlor in 3 samples (1 percent), carbendazim (MBC) in 3 samples (1 percent), 2,6-dichlorobenzamide, a metabolite of the pesticide dichlobenil, in 2 samples (0.6 percent), and coumaphos in 1 sample (0.3 percent). All residue detections were lower than the tolerances for the two pesticides that have established tolerances - 2,4-DMPF and coumaphos. Thymol is exempt from the requirement of a tolerance and the other three pesticides have no tolerance established.

Milk: The California laboratory conducted testing for pesticide residues on 711 milk samples. One residue representing one pesticide was detected in milk (Appendix D). Flubendiamide was detected in 12 samples (1.7 percent) of milk. The residue detections were much lower than the established tolerance.

Bottled Water: The New York laboratory conducted testing on 756 bottled water samples. Appendix E shows 10 residues representing 7 pesticides detected in bottled water. Alachlor ethanesulfonic acid (ESA) was detected in 49 samples (6.5 percent); metolachlor ethanesulfonic acid (ESA) was detected in 29 samples (3.8 percent); desethyl atrazine was detected in 22 samples (2.9 percent); and atrazine was detected in 5 samples (0.7 percent). Each of the following compounds were detected on 1 of the 756 samples, each representing 0.1 percent of the samples tested: acetochlor ethanesulfonic acid (ESA), desisopropyl atrazine, imidacloprid, metolachlor, simazine, and tebuthiuron.

♦ 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 F.

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 kale (39 percent), snap peas (1.5 percent), milk (0.1 percent), and sweet potatoes (0.1 percent). DDT p,p' was detected in kale (6.8 percent) and lettuce (0.3 percent). DDT o,p' was detected in kale (9 percent). DDE o,p' was detected in kale (0.1 percent). No residues of DDD o,p' or DDD p,p' were detected in any samples. All residues detected were lower than established FDA ALs.

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); hexachlorobenzene (HCB); lindane (BHC gamma); and mirex. 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 and mirex uses were canceled. In 1986, chlordane uses, except termiticide uses, were canceled. Despite these cancellations and because they persist in the environment, trace residues of chlordane (cis and trans), dieldrin, and endrin were detected in some of the tested commodities.

Dieldrin was detected in 11 percent of kale and 0.3 percent of cucumber samples. Chlordane (cis) was detected in 1.1 percent of kale samples, while chlordane (trans) was detected in 0.4 percent of kale samples and 0.2 percent of canned tomato samples. Endrin was detected in 0.3 percent of kale samples. All residues detected were lower than established FDA ALs. No residues of aldrin, BHC (alpha/beta/delta), heptachlor (parent), heptachlor epoxide (total, cis), HCB, lindane (BHC gamma), mirex, or oxychlordane were detected in any samples.

♦ 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.

Residues exceeding the established tolerance or Action Level are noted with an "X" in Appendixes B and C. Similarly, residues for which a tolerance is not established are noted with a "V" in Appendix B. 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 2017 and not to the current year. There may be instances where tolerances may have been recently changed 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 K are combined residues of parent and any isomers and/or metabolites to count the total number of samples with tolerance violations.

A total of 368 samples with 431 pesticides were reported to FDA as Presumptive Tolerance Violations. Pesticides exceeding the tolerance were detected in 0.59 percent (58 samples) of the total samples tested (9,785 samples), excluding bottled water. Of these 58 samples, 24 were domestic (41.4 percent), 32 were imported (55.2 percent), and 2 were of unknown origin (3.4 percent). The samples containing pesticides that exceeded established tolerances included: 5 samples of asparagus, 1 sample of fresh cranberries, 9 samples

of cucumbers, 24 samples of kale, 2 samples of onions, 16 snap pea samples, and 1 sample of sweet potatoes.

Residues with no established tolerance were found in 3.3 percent (320 samples) of the total samples tested (9,785 samples), excluding bottled water. Of these 320 samples, 150 were domestic (46.9 percent) and 170 were imported (53.1 percent). These samples included 239 fresh fruit and vegetable samples, 73 processed fruit/vegetable samples, and 8 honey samples. The 73 processed fruit/vegetable samples were canned garbanzo beans, canned olives, canned pineapples, and dried plums/prunes. There were 270 samples that contained 1 pesticide for which no tolerance was established, 48 samples with 2 pesticides for which no tolerance was established, and 2 samples that contained 3 pesticides for which no tolerance was established. Ten of the 320 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 residue levels and commodities are listed in Appendix K.

Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2018. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

APPENDIX A. COMMODITY HISTORY
AS OF DECEMBER 2018

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	Sep-16
Asparagus	Jan-02	Jun-03
Asparagus	Jul-08	Jun-10
Asparagus	Jul-17	Ongoing
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
Basil	Oct-18	Ongoing
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
Cabbage	Jul-17	Ongoing
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

Commodity	Start Date	End Date
Cherries [2]	May-07	Sep-07
Cherries	Apr-14	Mar-16
Cilantro	Oct-09	Sep-10
Cranberries	Oct-06	Dec-06
Cranberries [2]	Oct-16	Mar-18
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Cucumbers	Jan-09	Dec-10
Cucumbers	Jul-15	Jun-17
Eggplant	Jan-05	Dec-06
Grapefruit	Aug-91	Dec-93
Grapefruit	Jan-05	Dec-06
Grapefruit	Oct-15	Sep-17
Grapes [1]	May-91	Dec-96
Grapes	Jan-00	Dec-01
Grapes (TSP)	Jul-03	Dec-03
Grapes	Jan-04	Dec-05
Grapes	Jan-09	Dec-10
Grapes	Jan-15	Dec-16
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	Sep-16
Green Onions	Oct-08	Sep-09
Green Onions	Jan-18	Dec-18
Greens (collard & kale)	Oct-06	Sep-08
Hot Peppers	Oct-10	Sep-11
Kale	Jan-17	Dec-18
Kiwi	Apr-18	Ongoing
Lettuce	May-91	Dec-94
Lettuce	Oct-99	Sep-01
Lettuce	Jan-04	Dec-05
Lettuce	Jan-10	Dec-11
Lettuce	Jul-15	Jun-17
Lettuce, Organic	Jan-09	Dec-09
Mangoes	Apr-10	Sep-10
Mangoes	Oct-17	Sep-18
Mushrooms	Oct-01	Sep-03
Mushrooms	Oct-11	Sep-13
Nectarines [4]	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08
Nectarines	Jan-13	Dec-15
Onions	Jan-02	Dec-03
Onions	Oct-11	Sep-12
Onions	Jan-17	Dec-17
Oranges [1]	Aug-91	Dec-96

Commodity	Start Date	End Date
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Oranges	Jan-09	Dec-10
Oranges	Jan-15	Dec-16
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	Jun-15
Pears	Jan-97	Jun-99
Pears (S-1)	Jul-98	Jun-99
Pears	Oct-03	Sep-05
Pears	Jan-09	Dec-10
Pears	Jan-15	Dec-16
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
Potatoes	Jan-15	Dec-16
Raspberries [2]	Jan-13	Dec-13
Snap Peas	Jan-11	Dec-12
Snap Peas	Jan-17	Dec-18
Spinach [1]	Jan-95	Sep-97
Spinach	Jul-02	Dec-03
Spinach [7]	Jan-06	Sep-06
Spinach	Jan-08	Dec-09
Spinach	Jan-15	Dec-16
Strawberries [2]	Jan-98	Sep-00
Strawberries	Jan-04	Dec-05
Strawberries	Jan-08	Dec-09
Strawberries	Oct-14	Sep-16
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	Sep-15
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

Commodity	Start Date	End Date
Sweet Potatoes	Oct-08	Sep-10
Sweet Potatoes	Apr-16	Mar-18
Tangerines	Jan-11	Dec-12
Tomatoes [1]	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Dec-08
Tomatoes	Oct-14	Sep-16
Tomatoes, Cherry/Grape	Jan-11	Dec-12
Watermelon [8]	Oct-05	Sep-06
Watermelon	Apr-10	Sep-10
Watermelon	Jul-14	Jun-15
Winter Squash [2]	Jan-97	Jun-99
Winter Squash	Jul-04	Jun-06
Winter Squash	Oct-11	Mar-13

NOTES

[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
Applesauce	Oct-16	Sep-17
Asparagus, Canned	Jul-03	Dec-03
Beans, Canned (4 varieties) [2]	Oct-08	Sep-10
Beets, Canned	Jan-11	Dec-11
Blueberries (cultivated), Frozen [3]	Jan-07	Dec-08
Blueberries (cultivated/wild), Frozen [3]	Jan-14	Dec-14
Cherries, Frozen [4]	Apr-14	Mar-16
Corn Syrup [4]	Jan-98	Jun-99
Cranberries, Canned	Apr-18	Sep-18
Cranberries, Frozen [3]	Oct-16	Mar-18
Garbanzo Beans, Canned	Oct-17	Sep-18
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
Olives, Canned	Oct-16	Sep-18
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	Jan-18	Dec-18
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 [5]	Oct-01	Sep-03
Peas, Canned/Frozen	Oct-18	Ongoing
Peas, Frozen	Jan-06	Dec-06
Pineapple, Canned	Jan-17	Dec-17
Plums, Dried (Prunes) [6]	Jan-05	Dec-06
Plums, Dried (Prunes)	Oct-17	Sep-18
Potatoes, Frozen	Jan-06	Dec-07

Commodity	Start Date	End Date
Raisins	Jul-06	Jun-07
Raisins	Jan-18	Dec-18
Raspberries, Frozen [3]	Jan-13	Dec-13
Spinach, Canned	Oct-97	Dec-98
Spinach, Canned	Jan-04	Jun-04
Spinach, Canned/Frozen	Jul-10	Jun-11
Spinach, Canned/Frozen	Oct-18	Ongoing
Spinach, Frozen	Jan-99	Dec-99
Strawberries, Frozen [3]	Jan-98	Sep-00
Strawberries, Frozen	Oct-18	Ongoing
Sweet Corn, Canned/Frozen	Apr-94	Mar-96
Sweet Corn, Canned/Frozen [5]	Oct-01	Sep-03
Sweet Corn, Frozen [3]	Oct-08	Sep-10
Sweet Corn, Frozen [3]	Oct-14	Sep-15
Tomato Paste, Canned	Jan-01	Jun-01
Tomato Paste, Canned	Jan-09	Dec-09
Tomatoes, Canned	Jul-99	Jun-00
Tomatoes, Canned	Oct-16	Sep-17
Winter Squash, Frozen [3]	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

NOTES

[1] Excludes sampling hiatus September - November 1996.

[2] Bean varieties included black, garbanzo, kidney, and pinto.

[3] Frozen collected when fresh unavailable.

[4] Excludes sampling hiatus January 1999.

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

[6] 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
Rice	Oct-18	Ongoing
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	Jan-18	Dec-18
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
Peanut Butter	Apr-15	Aug-15

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
Heavy Cream	Jun-18	Aug-18
Milk [2]	Jan-96	Oct-98
Milk (TSP)	Jul-03	Dec-03
Milk	Jan-04	Dec-05
Milk	Jan-11	Dec-11
Milk	Jan-16	Dec-17

Fish Products

Commodity	Type	Start Date	End Date
Fish [3]	Catfish	Apr-08	Jun-10
Fish	Salmon	Jul-13	Jun-14

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 [4]	Cows, Heifers, Steers	Dec-08	May-09
Pork	Gilt, Barrow	Jan-05	Jun-05

Other Products

Commodity	Start Date	End Date
Eggs (TSP)	Jul-03	Dec-03
Eggs	Jul-10	Jun-11
Eggs	Apr-16	Aug-16
Honey	Oct-07	Sep-08
Honey	Apr-17	Aug-17

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
10 Participating States	Jan-17	Dec-17
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

NOTES

[1] Includes sampling hiatus May-July 2009.

[2] Excludes sampling hiatus September - November 1996.

[3] Excludes sampling hiatus April-June 2009.

[4] Survey ended 7 months early due to budgetary constraints.

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

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

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

Appendix B

Distribution of Residues by Pesticide in Fruit and Vegetables

Appendix B shows residue detections for all fruit and vegetable pesticide/commodity pairs tested, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerances for each pair. The EPA tolerances cited in this summary and appendixes apply to 2017 and not to the current year. There may be instances where tolerances have been recently set, modified, or revoked that would have an effect on whether a residue is violative or not.

In 2017, the Pesticide Data Program (PDP) analyzed 8,759 fruit and vegetable samples, of which 5,305 were fresh products and 3,454 were processed products.

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

PDP reports tolerance violations to FDA as part of an interagency Memorandum of Understanding between the U.S. Department of Agriculture and FDA. Residues reported to FDA are shown in the "Pesticide/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 F).

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	Tolerance Violation	EPA Tolerance Level, ppm
2,4-dimethylphenyl formamide (2,4-DMPF) (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	693	0			0.005 ^		NT
TOTAL	**1,054**	**0**					
2,6-DIPN (plant growth regulator)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	60	0			0.010 ^		NT
Olives, Canned	754	0			0.003 - 0.010		NT
TOTAL	**1,085**	**0**					
Abamectin (insecticide)							
Applesauce	570	0			0.050 ^		0.02
Asparagus	354	0			0.050 ^		0.01
Grapefruit	271	0			0.020 ^		0.02
Kale	708	0			0.025 ^		0.01
Mangoes	90	0			0.020 ^		0.01
Olives, Canned	754	0			0.020 ^		0.01
Plums, Dried / Prunes	191	0			0.050 ^		0.025
Snap Peas	710	0			0.025 ^		0.01
TOTAL	**3,648**	**0**					
Acephate (insecticide)							
Applesauce	570	0			0.003 ^		0.02
Asparagus	354	0			0.003 ^		0.02
Cabbage	354	0			0.050 ^		0.02
Cranberries	311	0			0.015 ^		0.5
Cranberries, Frozen	427	0			0.015 ^		0.5
Cucumbers	355	0			0.050 ^		0.02
Garbanzo Beans, Canned	189	0			0.015 ^		0.02
Grapefruit	526	0			0.005 - 0.030		0.02
Kale	708	0			0.050 ^		0.02
Lettuce	378	15	4	0.003 - 0.026	0.003 ^		10/0.02 &
Mangoes	177	0			0.005 - 0.015		0.02
Olives, Canned	754	0			0.005 ^		0.02
Onions	708	5	0.7	0.007 - 0.053	0.005 - 0.050	X-2	0.02
Pineapple, Canned	756	0			0.050 - 0.15		0.02
Plums, Dried / Prunes	159	0			0.003 ^		0.02
Snap Peas	710	0			0.050 ^		0.02
Sweet Potatoes	701	0			0.15 ^		0.02
Tomatoes, Canned	566	0			0.005 ^		0.02
TOTAL	**8,703**	**20**					
Acetamiprid (insecticide)							
Applesauce	570	440	77.2	0.002 - 0.058	0.002 ^		1.0
Asparagus	354	0			0.001 - 0.002		0.80
Cabbage	354	4	1.1	0.013 - 0.018	0.010 ^		1.20
Cranberries	311	0			0.002 ^		1.6
Cranberries, Frozen	428	0			0.002 ^		1.6
Cucumbers	378	10	2.6	0.010 - 0.035	0.010 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		0.40

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	526	11	2.1	0.001 - 0.009	0.001 - 0.002		1.0
Kale	708	39	5.5	0.017 - 3.6	0.010 ^		15
Lettuce	378	8	2.1	0.002 - 0.019	0.002 ^		3.00
Mangoes	177	0			0.001 - 0.002		0.01
Olives, Canned	754	0			0.001 ^		0.01
Onions	708	0			0.001 - 0.010		0.02
Pineapple, Canned	756	0			0.005 - 0.010		0.01
Plums, Dried / Prunes	191	0			0.002 ^		0.40
Snap Peas	710	9	1.3	0.017 - 0.15	0.010 ^		0.60
Sweet Potatoes	701	0			0.005 ^		0.01
Tomatoes, Canned	566	1	0.2	0.002 ^	0.001 ^		0.20
TOTAL	**8,759**	**522**					
Acetochlor (herbicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cranberries	311	0			0.030 ^		NT
Cranberries, Frozen	428	0			0.030 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.030		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	360	0			0.003 ^		NT
Pineapple, Canned	359	0			0.050 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.050 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**5,864**	**0**					
Acibenzolar S methyl (plant activator)							
Applesauce	570	0			0.020 ^		0.05
Asparagus	354	0			0.020 ^		NT
Cabbage	354	0			0.010 ^		1.0
Cranberries	311	0			0.030 ^		0.15
Cranberries, Frozen	428	0			0.030 ^		0.15
Garbanzo Beans, Canned	189	0			0.012 ^		NT
Grapefruit	255	0			0.005 ^		0.02
Kale	708	0			0.025 ^		1.0
Lettuce	378	0			0.020 ^		0.25
Mangoes	87	0			0.030 ^		NT
Onions	693	0			0.004 - 0.012		0.1
Pineapple, Canned	756	0			0.010 - 0.040		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Sweet Potatoes	701	0			0.040 ^		NT
Tomatoes, Canned	545	0			0.004 - 0.012		1.0
TOTAL	**6,520**	**0**					
Acifluorfen (herbicide)							
Grapefruit	271	0			0.050 ^		NT
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Aclonifen (herbicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Alachlor (herbicide)							
Cranberries	311	0			0.020 ^		NT
Cranberries, Frozen	428	0			0.020 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.010 - 0.020		NT
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	360	0			0.002 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**3,311**	**0**					
Aldicarb (insecticide)							
Asparagus	205	0			0.030 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	497	0			0.001 - 0.005		0.3
Mangoes	177	0			0.002 - 0.005		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.020		NT
Plums, Dried / Prunes	127	0			0.030 ^		NT
Sweet Potatoes	701	0			0.020 ^		0.1
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,151**	**0**					
Aldicarb sulfone (metabolite of Aldicarb)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.010 ^		NT
Grapefruit	526	0			0.003 - 0.020		0.3
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.025		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.025 ^		0.1
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**7,341**	**0**					
Aldicarb sulfoxide (metabolite of Aldicarb)							
Applesauce	570	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	Tolerance Violation	EPA Tolerance Level, ppm
Asparagus	32	0			0.005 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.006 ^		NT
Grapefruit	271	0			0.003 ^		0.3
Lettuce	378	0			0.005 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.002 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.055		NT
Sweet Potatoes	701	0			0.055 ^		0.1
Tomatoes, Canned	566	0			0.006 ^		NT
TOTAL	**5,747**	**0**					
Allethrin (insecticide)							
Cabbage	354	0			0.020 ^		NT
Cucumbers	378	0			0.040 ^		NT
Grapefruit	526	0			0.010 - 0.050		NT
Mangoes	60	0			0.010 ^		NT
Olives, Canned	693	0			0.010 ^		NT
Onions	348	0			0.040 ^		NT
Pineapple, Canned	756	0			0.040 - 0.080		NT
Sweet Potatoes	701	0			0.080 ^		NT
TOTAL	**3,816**	**0**					
Ametoctradin (fungicide)							
Cranberries	311	1	0.3	0.003 ^	0.001 ^	V-1	NT
Cranberries, Frozen	428	0			0.001 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Kale	708	45	6.4	0.003 - 37	0.002 ^		50
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		1.5
Tomatoes, Canned	566	0			0.001 ^		1.5
TOTAL	**4,019**	**46**					
Ametryn (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.001 - 0.010		0.05
TOTAL	**4,032**	**0**					
Amicarbazone (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Anilofos (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Aspon (insecticide)							
Cabbage	354	0			0.005 ^		NT
TOTAL	**354**	**0**					
Asulam (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Atraton (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Atrazine (herbicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	1	0.3	0.53 ^	0.002 ^	V-1	NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Lettuce	378	3	0.8	0.002 - 0.020	0.002 ^		0.25
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**4**					
Azinphos (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Azinphos methyl (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.020 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.020 ^		NT
Garbanzo Beans, Canned	189	0			0.006 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Kale	708	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	Tolerance Violation	EPA Tolerance Level, ppm
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.006 - 0.020		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Snap Peas	710	0			0.020 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.006 ^		NT
TOTAL	**8,759**	**0**					
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cranberries	311	0			0.015 ^		NT
Cranberries, Frozen	428	0			0.015 ^		NT
Grapefruit	526	0			0.003 - 0.015		NT
Kale	708	0			0.020 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.015		NT
Olives, Canned	754	0			0.003 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Snap Peas	710	0			0.020 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**6,167**	**0**					
Azoxystrobin (fungicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.001 - 0.002		0.04
Cabbage	328	13	4	0.003 - 0.21	0.002 ^		3.0
Cranberries	311	30	9.6	0.001 - 0.005	0.001 ^		5.0
Cranberries, Frozen	428	6	1.4	0.001 - 0.004	0.001 ^		5.0
Cucumbers	378	66	17.5	0.002 - 0.038	0.002 ^		0.3
Garbanzo Beans, Canned	189	0			0.001 ^		0.50
Grapefruit	526	21	4	0.001 - 0.057	0.001 - 0.010		15.0
Kale	708	243	34.3	0.003 - 11.5	0.002 ^		25
Lettuce	378	8	2.1	0.002 - 0.66	0.002 ^		30.0
Mangoes	177	38	21.5	0.001 - 0.51	0.001 ^		2.0
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.002		1.0
Pineapple, Canned	756	0			0.002 - 0.010		NT
Plums, Dried / Prunes	191	25	13.1	0.002 - 0.025	0.002 ^		2.0
Snap Peas	710	94	13.2	0.003 - 0.33	0.002 ^		3.0
Sweet Potatoes	701	0			0.010 ^		8.0
Tomatoes, Canned	566	107	18.9	0.002 - 0.015	0.001 ^		0.2
TOTAL	**8,733**	**651**					
Beflubutamid (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 - 0.005		NT
TOTAL	**91**	**0**					
Benalaxyl (fungicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 - 0.010		NT
TOTAL	**1,115**	**0**					
Benazolin (herbicide)							
Grapefruit	271	0			0.050 ^		NT
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Bendiocarb (insecticide)							
Applesauce	570	0			0.003 ^		SU
Asparagus	354	0			0.003 ^		SU
Cabbage	354	0			0.005 ^		SU
Cranberries	311	0			0.002 ^		SU
Cranberries, Frozen	428	0			0.002 ^		SU
Cucumbers	378	0			0.005 ^		SU
Garbanzo Beans, Canned	189	0			0.001 ^		SU
Grapefruit	526	0			0.001 - 0.015		SU
Kale	708	0			0.010 ^		SU
Lettuce	378	0			0.003 ^		SU
Mangoes	177	0			0.001 - 0.002		SU
Olives, Canned	754	0			0.001 ^		SU
Onions	679	0			0.001 - 0.005		SU
Pineapple, Canned	756	0			0.005 - 0.010		SU
Plums, Dried / Prunes	191	0			0.003 ^		SU
Snap Peas	710	0			0.010 ^		SU
Sweet Potatoes	701	0			0.010 ^		SU
Tomatoes, Canned	566	0			0.001 ^		SU
TOTAL	**8,730**	**0**					
Benfluralin (herbicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		0.05
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**2,608**	**0**					
Benomyl (fungicide)							
Kale	176	0			0.10 ^		NT
Snap Peas	118	0			0.10 ^		NT
TOTAL	**294**	**0**					
Benoxacor (herbicide safener)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		0.1
Cabbage	354	0			0.005 ^		0.01
Cranberries	311	0			0.020 ^		0.01
Cranberries, Frozen	428	0			0.020 ^		0.01
Garbanzo Beans, Canned	189	0			0.001 ^		0.01

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	526	0			0.003 - 0.020		NT
Lettuce	378	0			0.010 ^		0.01
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	360	0			0.001 ^		0.01
Pineapple, Canned	359	0			0.015 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		0.01
Snap Peas	710	0			0.040 ^		0.01
Sweet Potatoes	701	0			0.015 ^		0.01
Tomatoes, Canned	566	0			0.001 ^		0.01
TOTAL	**6,928**	**0**					
Bensulide (herbicide)							
Applesauce	570	0			0.004 ^		NT
Asparagus	354	0			0.004 ^		NT
Grapefruit	526	0			0.005 - 0.015		NT
Kale	708	3	0.4	0.017 - 0.081	0.010 ^		0.15
Lettuce	378	0			0.004 ^		0.15
Mangoes	90	0			0.001 ^		NT
Olives, Canned	691	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.004 ^		NT
TOTAL	**3,508**	**3**					
Bensulide oxygen analog (metabolite of Bensulide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Grapefruit	255	0			0.002 ^		NT
Lettuce	378	0			0.002 ^		0.15
Mangoes	87	0			0.002 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
TOTAL	**2,574**	**0**					
Bentazon (herbicide)							
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Grapefruit	526	0			0.003 - 0.10		NT
Mangoes	87	0			0.050 ^		NT
Olives, Canned	630	0			0.003 ^		NT
Pineapple, Canned	359	0			0.030 ^		NT
Sweet Potatoes	701	0			0.030 ^		NT
TOTAL	**3,042**	**0**					
Benthiavalicarb isopropyl (fungicide)							
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**1,060**	**0**					
Bifenazate (acaricide)							
Cabbage	354	0			0.010 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		7.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Snap Peas	710	2	0.3	0.052 - 0.081	0.015 ^		6.0
Sweet Potatoes	701	0			0.005 ^		0.3
TOTAL	**3,984**	**2**					
Bifenox (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**1,115**	**0**					
Bifenthrin (insecticide)							
Applesauce	570	9	1.6	0.002 - 0.006	0.002 ^		0.5
Asparagus	354	0			0.002 ^		0.05
Cabbage	354	6	1.7	0.010 - 0.16	0.005 ^		4.0
Cranberries	311	2	0.6	0.005 - 0.006	0.005 ^		1.8
Cranberries, Frozen	428	4	0.9	0.009 - 0.016	0.005 ^		1.8
Cucumbers	378	34	9	0.005 - 0.029	0.005 ^		0.4
Garbanzo Beans, Canned	189	0			0.001 ^		0.05
Grapefruit	526	0			0.003 - 0.040		0.05
Kale	708	210	29.7	0.002 - 2.5	0.001 ^		3.5
Lettuce	378	0			0.002 ^		3.0
Mangoes	177	1	0.6	0.003 ^	0.001 - 0.005		0.05
Olives, Canned	754	0			0.001 - 0.003		0.05
Onions	708	0			0.001 - 0.005		0.05
Pineapple, Canned	756	0			0.005 - 0.010		0.05
Plums, Dried / Prunes	191	0			0.002 ^		0.05
Snap Peas	710	64	9	0.002 - 0.11	0.001 ^		0.6
Sweet Potatoes	701	1	0.1	0.012 ^	0.010 ^		0.05
Tomatoes, Canned	566	103	18.2	0.002 - 0.018	0.001 ^		0.15
TOTAL	**8,759**	**434**					
Bioallethrin (insecticide)							
Mangoes	30	0			0.010 ^		NT
Olives, Canned	61	0			0.010 ^		NT
TOTAL	**91**	**0**					
Biphenyl (fungicide)							
Pineapple, Canned	359	0			0.075 ^		NT
Sweet Potatoes	701	0			0.075 ^		NT
TOTAL	**1,060**	**0**					
Bitertanol (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,592**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Boscalid (fungicide)							
Applesauce	570	38	6.7	0.003 - 0.018	0.003 ^		3.0
Asparagus	354	0			0.003 ^		NT
Cabbage	354	2	0.6	0.040 - 0.19	0.010 ^		3.0
Cranberries	309	0			0.005 ^		13.0
Cranberries, Frozen	409	0			0.005 ^		13.0
Cucumbers	378	31	8.2	0.010 - 0.26	0.010 ^		0.5
Garbanzo Beans, Canned	189	0			0.001 ^		0.6
Grapefruit	526	0			0.003 - 0.005		2.0
Kale	708	84	11.9	0.017 - 15.7	0.010 ^		18.0
Lettuce	378	26	6.9	0.003 - 1.1	0.003 ^		6.5/11.0 [&]
Mangoes	177	4	2.3	0.004 - 0.029	0.003 - 0.005		1.5
Olives, Canned	754	0			0.003 ^		NT
Onions	708	91	12.9	0.002 - 0.022	0.001 - 0.010		5.0
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	6	3.1	0.005 - 0.029	0.003 ^		3.5
Snap Peas	710	29	4.1	0.017 - 0.46	0.010 ^		5.0
Sweet Potatoes	701	0			0.015 ^		0.05
Tomatoes, Canned	566	7	1.2	0.002 - 0.005	0.001 ^		3.0
TOTAL	**8,738**	**318**					
Bromacil (herbicide)							
Applesauce	570	0			0.003 ^		NT
Asparagus	354	0			0.003 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	526	0			0.005 - 0.010		0.1
Lettuce	378	0			0.003 ^		NT
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Pineapple, Canned	359	0			0.020 ^		0.1
Plums, Dried / Prunes	191	0			0.003 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
TOTAL	**4,749**	**0**					
Bromophos ethyl (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Bromopropylate (acaricide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**2,592**	**0**					
Bromoxynil (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Olives, Canned	630	0			0.010 ^		NT
TOTAL	**901**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Bromuconazole (fungicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**1,115**	**0**					
Bupirimate (fungicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,652**	**0**					
Buprofezin (insecticide)							
Applesauce	570	1	0.2	0.001 ^	0.001 ^		3.0
Asparagus	354	0			0.001 ^		NT
Cabbage	354	1	0.3	0.011 ^	0.010 ^		12.0
Cranberries	311	0			0.001 ^		2.5
Cranberries, Frozen	428	0			0.001 ^		2.5
Cucumbers	378	2	0.5	0.014 - 0.056	0.010 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		2.5
Kale	708	30	4.2	0.002 - 5.0	0.001 ^		60
Lettuce	378	0			0.001 ^		6.0/35 &
Mangoes	177	0			0.001 ^		0.90
Olives, Canned	754	109	14.5	0.001 - 0.057	0.001 ^		3.5
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.001 - 0.010		NT
Plums, Dried / Prunes	191	1	0.5	0.001 ^	0.001 ^		1.9
Snap Peas	710	3	0.4	0.002 - 0.004	0.001 ^	V-3	NT
Sweet Potatoes	701	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		2.0
TOTAL	**8,759**	**147**					
Butachlor (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Butocarboxim (insecticide, acaricide)							
Cabbage	294	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Onions	320	0			0.010 ^		NT
Pineapple, Canned	722	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**2,415**	**0**					
Butocarboxim sulfone (metabolite of Butocarboxim)							
Pineapple, Canned	359	0			0.015 ^		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**1,060**	**0**					
Butocarboxim sulfoxide (metabolite of Butocarboxim)							
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**1,060**	**0**					
Butylate (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
TOTAL	**1,115**	**0**					
Cadusafos (insecticide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Captan (fungicide) (parent of THPI)							
Cucumbers	292	0			0.020 ^		0.05
Kale	708	0			0.050 ^		0.05
Onions	348	0			0.020 ^		0.05
Pineapple, Canned	397	0			0.020 ^		NT
Snap Peas	710	0			0.050 ^		0.05
TOTAL	**2,455**	**0**					
Carbaryl (insecticide)							
Applesauce	570	11	1.9	0.004 - 0.11	0.003 ^		12
Asparagus	354	0			0.003 ^		15
Cabbage	354	0			0.010 ^		21
Cranberries	311	0			0.002 ^		3.0
Cranberries, Frozen	428	0			0.002 ^		3.0
Cucumbers	378	0			0.010 ^		3.0
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.002 - 0.003		10
Kale	708	3	0.4	0.033 - 0.14	0.020 ^		10
Lettuce	378	0			0.003 ^		10
Mangoes	177	0			0.002 - 0.003		NT
Olives, Canned	754	0			0.003 ^		10
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		2.0
Plums, Dried / Prunes	191	1	0.5	0.11 ^	0.003 ^		10
Snap Peas	710	0			0.020 ^		10
Sweet Potatoes	701	0			0.005 ^		0.2
Tomatoes, Canned	566	0			0.001 ^		5.0
TOTAL	**8,759**	**15**					
Carbendazim - MBC (fungicide) (metabolite of Benomyl and Thiophanate Methyl)							
Applesauce	570	382	67	0.001 - 0.060	0.001 ^		2.0
Asparagus	294	1	0.3	0.002 ^	0.001 ^	V-1	NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	37	9.8	0.010 - 0.051	0.010 ^		1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	271	0			0.001 ^		NT
Kale	708	0			0.015 ^		NT
Lettuce	378	1	0.3	0.003 ^	0.001 ^	V-1	NT
Mangoes	177	28	15.8	0.001 - 0.015	0.001 - 0.010	V-28	NT
Olives, Canned	754	25	3.3	0.001 - 0.004	0.001 ^	V-25	NT
Onions	708	0			0.001 - 0.010		0.5
Pineapple, Canned	756	1	0.1	0.012 ^	0.010 ^	V-1	NT
Plums, Dried / Prunes	191	23	12	0.001 - 0.007	0.001 ^		0.5
Snap Peas	710	46	6.5	0.025 - 2.3	0.015 ^	V-46	NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,705**	**544**					
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	4	1.1	0.005 - 0.13	0.001 - 0.002	V-4	NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Kale	708	0			0.005 ^		NT
Lettuce	378	0			0.002 ^		NT
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Snap Peas	710	0			0.005 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**8,759**	**4**					
Carbophenothion (insecticide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 - 0.010		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Carboxin (fungicide)							
Cabbage	354	0			0.005 ^		NT
Cranberries	266	0			0.025 ^		NT
Cranberries, Frozen	402	0			0.025 ^		NT
Grapefruit	526	0			0.003 - 0.050		NT
Mangoes	177	0			0.003 - 0.025		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,479**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Carfentrazone (herbicide)							
Applesauce	570	0			0.005 ^		0.10
Asparagus	327	0			0.005 ^		0.10
Cabbage	354	0			0.005 ^		0.10
Cranberries	311	0			0.005 ^		0.10
Cranberries, Frozen	428	0			0.005 ^		0.10
Cucumbers	378	0			0.005 ^		0.10
Garbanzo Beans, Canned	189	0			0.005 ^		0.10
Grapefruit	526	0			0.003 - 0.005		0.10
Kale	708	0			0.002 ^		0.10
Lettuce	378	0			0.005 ^		0.10
Mangoes	177	0			0.003 - 0.005		0.10
Olives, Canned	754	0			0.003 ^		0.10
Onions	708	0			0.005 ^		0.10
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.005 ^		0.10
Snap Peas	710	0			0.002 ^		0.10
Sweet Potatoes	701	0			0.020 ^		0.10
Tomatoes, Canned	566	0			0.005 - 0.015		0.10
TOTAL	**8,732**	**0**					
Chlorantraniliprole (insecticide)							
Applesauce	570	1	0.2	0.011 ^	0.010 ^		1.2
Asparagus	354	1	0.3	0.030 ^	0.010 ^		13
Cabbage	354	6	1.7	0.021 - 0.056	0.020 ^		4.0
Cranberries	311	38	12.2	0.005 - 0.018	0.005 ^		2.5
Cranberries, Frozen	428	38	8.9	0.005 - 0.016	0.005 ^		2.5
Cucumbers	378	0			0.020 ^		0.5
Garbanzo Beans, Canned	189	0			0.002 ^		2.0
Grapefruit	526	0			0.001 - 0.005		1.4
Kale	708	172	24.3	0.017 - 7.5	0.010 ^		11
Lettuce	378	9	2.4	0.011 - 0.078	0.010 ^		13
Mangoes	177	0			0.005 ^		4.0
Olives, Canned	754	0			0.005 ^		4.0
Onions	708	0			0.002 - 0.020		0.30
Pineapple, Canned	726	0			0.010 - 0.020		3.0
Plums, Dried / Prunes	191	0			0.010 ^		2.5
Snap Peas	710	66	9.3	0.017 - 0.19	0.010 ^		2.0
Sweet Potatoes	701	0			0.010 ^		0.30
Tomatoes, Canned	566	0			0.002 ^		1.4
TOTAL	**8,729**	**331**					
Chlordimeform (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Chlorethoxyfos (insecticide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 - 0.020		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**2,196**	**0**					
Chlorfenapyr (insecticide)							
Applesauce	570	0			0.015 ^		0.01
Asparagus	354	0			0.015 ^		0.01
Cabbage	354	0			0.005 ^		0.01
Cranberries	311	0			0.025 ^		0.01
Cranberries, Frozen	428	0			0.025 ^		0.01
Cucumbers	378	11	2.9	0.011 - 0.031	0.005 ^	X-7	0.01
Garbanzo Beans, Canned	189	0			0.002 ^		0.01
Grapefruit	526	0			0.025 - 0.25		0.01
Kale	708	0			0.020 - 0.067		0.01
Lettuce	378	0			0.015 ^		0.01
Mangoes	117	0			0.005 - 0.025		0.01
Olives, Canned	691	0			0.005 - 0.25		0.01
Onions	708	0			0.002 - 0.005		0.01
Pineapple, Canned	756	0			0.005 - 0.040		0.01
Plums, Dried / Prunes	191	0			0.015 ^		0.01
Snap Peas	710	0			0.020 ^		0.01
Sweet Potatoes	701	0			0.040 ^		0.01
Tomatoes, Canned	566	0			0.002 ^		1.0
TOTAL	**8,636**	**11**					
Chlorfenvinphos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.002 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**2,584**	**0**					
Chlorimuron ethyl (herbicide)							
Cranberries	311	0			0.005 ^		0.02
Cranberries, Frozen	428	0			0.005 ^		0.02
Grapefruit	271	0			0.003 ^		NT
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,941**	**0**					
Chlorobenzilate (acaricide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
Chloroneb (fungicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**1,115**	**0**					
Chlorothalonil (fungicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Asparagus	354	0			0.020 ^		0.1
Cucumbers	378	31	8.2	0.005 - 0.64	0.005 ^		5.0
Grapefruit	271	0			0.005 ^		NT
Mangoes	177	0			0.005 ^		1.0
Olives, Canned	61	0			0.005 ^		NT
Onions	290	0			0.005 ^		0.5
Pineapple, Canned	397	0			0.005 ^		NT
Plums, Dried / Prunes	159	0			0.020 ^		0.2
TOTAL	**2,087**	**31**					
Chlorpropham (herbicide, growth regulator)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	1	0.3	0.023 ^	0.005 ^	V-1	NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	5	1.3	0.006 - 0.047	0.005 ^	V-5	NT
Garbanzo Beans, Canned	189	0			0.001 - 0.003		NT
Grapefruit	526	0			0.003 - 0.005		NT
Lettuce	378	0			0.020 ^		NT
Mangoes	177	6	3.4	0.002 - 0.044	0.001 - 0.005	V-6	NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Sweet Potatoes	701	3	0.4	0.024 - 0.029	0.020 ^	V-3	NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**15**					
Chlorpyrifos (insecticide)							
Applesauce	570	1	0.2	0.006 ^	0.005 ^		0.1
Asparagus	354	31	8.8	0.005 - 0.16	0.005 ^		5.0
Cabbage	354	0			0.005 ^		1.0
Cranberries	311	1	0.3	0.039 ^	0.015 ^		1.0
Cranberries, Frozen	428	0			0.015 ^		1.0
Cucumbers	378	4	1.1	0.007 - 0.060	0.005 ^		0.1
Garbanzo Beans, Canned	189	0			0.001 ^		0.1
Grapefruit	526	0			0.003 - 0.035		1.0
Kale	708	9	1.3	0.017 - 0.27	0.010 ^		1.0
Lettuce	378	1	0.3	0.006 ^	0.005 ^		0.1
Mangoes	177	0			0.003 - 0.015		0.1
Olives, Canned	754	14	1.9	0.003 - 0.020	0.003 ^		0.1
Onions	708	0			0.001 - 0.005		0.5
Pineapple, Canned	756	0			0.005 - 0.010		0.1
Plums, Dried / Prunes	191	0			0.005 ^		0.1
Snap Peas	710	7	1	0.017 - 0.11	0.010 ^		0.1
Sweet Potatoes	701	2	0.3	0.010 - 0.013	0.010 ^		0.1
Tomatoes, Canned	566	7	1.2	0.002 - 0.009	0.001 ^		0.1
TOTAL	**8,759**	**77**					
Chlorpyrifos methyl (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)							
Applesauce	570	0			0.002 ^		0.1
Asparagus	354	0			0.004 ^		5.0
Cabbage	354	0			0.010 ^		1.0
Cranberries	311	0			0.005 ^		1.0
Cranberries, Frozen	428	0			0.005 ^		1.0
Cucumbers	378	0			0.010 ^		0.1
Garbanzo Beans, Canned	189	0			0.001 ^		0.1
Grapefruit	526	0			0.001 ^		1.0
Kale	708	0			0.003 ^		1.0
Lettuce	378	1	0.3	0.002 ^	0.002 ^		0.1
Mangoes	177	0			0.001 - 0.005		0.1
Olives, Canned	754	0			0.001 ^		0.1
Onions	708	0			0.001 - 0.010		0.5
Pineapple, Canned	756	0			0.005 - 0.010		0.1
Plums, Dried / Prunes	159	0			0.002 - 0.004		0.1
Snap Peas	710	0			0.003 ^		0.1
Sweet Potatoes	701	0			0.005 ^		0.1
Tomatoes, Canned	566	0			0.001 ^		0.1
TOTAL	**8,727**	**1**					
Chlorsulfuron (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Chlorthiophos (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Clethodim (herbicide)							
Cabbage	354	0			0.010 ^		3.0
Cranberries	279	0			0.20 ^		0.50
Cranberries, Frozen	403	0			0.20 ^		0.50
Garbanzo Beans, Canned	189	0			0.002 ^		3.5
Grapefruit	526	0			0.010 - 0.40		NT
Kale	708	0			0.010 ^		3.0
Mangoes	177	0			0.010 - 0.20		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	708	0			0.002 - 0.010		0.50
Pineapple, Canned	397	0			0.010 ^		NT
Snap Peas	710	0			0.010 ^		3.5
Tomatoes, Canned	566	0			0.002 ^		1.0
TOTAL	**5,771**	**0**					
Clofentezine (insecticide)							
Grapefruit	241	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,085**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Clomazone (herbicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		0.05
Cabbage	354	0			0.005 ^		0.1
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		0.1
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.003 - 0.005		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.070		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Snap Peas	710	0			0.003 ^		0.05
Sweet Potatoes	701	0			0.070 ^		0.05
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**7,691**	**0**					
Clopyralid (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		NT
TOTAL	**901**	**0**					
Cloransulam methyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)							
Applesauce	570	0			0.010 ^		1.0
Asparagus	354	1	0.3	0.028 ^	0.010 ^		0.02
Cabbage	354	2	0.6	0.012 - 0.018	0.010 ^		1.9
Cranberries	311	0			0.025 ^		0.01
Cranberries, Frozen	428	0			0.025 ^		0.01
Cucumbers	378	1	0.3	0.016 ^	0.010 ^		0.06
Garbanzo Beans, Canned	189	0			0.005 ^		0.02
Grapefruit	526	5	1	0.002 - 0.012	0.001 - 0.005		0.07
Kale	708	9	1.3	0.083 - 0.17	0.050 ^		1.9
Lettuce	378	2	0.5	0.010 - 0.017	0.010 ^		3.0
Mangoes	177	6	3.4	0.001 - 0.006	0.001 - 0.025		0.40
Olives, Canned	754	0			0.001 ^		0.02
Onions	708	0			0.002 - 0.010		0.45
Pineapple, Canned	756	0			0.010 - 0.035		0.02
Plums, Dried / Prunes	191	0			0.010 ^		0.5
Snap Peas	710	0			0.050 ^		0.02
Sweet Potatoes	701	0			0.035 ^		0.3
Tomatoes, Canned	566	3	0.5	0.006 - 0.009	0.005 ^		0.20
TOTAL	**8,759**	**29**					
Coumaphos (insecticide)							
Applesauce	570	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	Tolerance Violation	EPA Tolerance Level, ppm
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	397	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**5,200**	**0**					
Coumaphos oxygen analog (metabolite of Coumaphos)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.003 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**3,723**	**0**					
Crotoxyphos (insecticide, acaricide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Crufomate (insecticide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Cumyluron (herbicide)							
Cabbage	354	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**1,099**	**0**					
Cyantraniliprole (insecticide)							
Cranberries	311	0			0.005 ^		4.0
Cranberries, Frozen	428	1	0.2	0.006 ^	0.005 ^		4.0
Garbanzo Beans, Canned	189	0			0.002 ^		0.20
Grapefruit	526	0			0.003 - 0.005		0.70
Kale	708	51	7.2	0.017 - 8.4	0.010 ^		30
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		1.5

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	360	0			0.008 ^		0.04
Pineapple, Canned	329	0			0.15 ^		NT
Sweet Potatoes	701	0			0.15 ^		0.15
Tomatoes, Canned	566	0			0.002 ^		2.0
TOTAL	**5,049**	**52**					
Cyazofamid (fungicide)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.006 ^		NT
Grapefruit	526	0			0.010 ^		NT
Kale	708	31	4.4	0.008 - 2.8	0.005 ^		12.0
Mangoes	177	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	360	0			0.006 ^		2.0
Pineapple, Canned	359	0			0.020 ^		NT
Sweet Potatoes	701	0			0.020 ^		0.02
Tomatoes, Canned	566	0			0.006 ^		0.9
TOTAL	**5,079**	**31**					
Cyclanilide (plant growth regulator)							
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		NT
TOTAL	**901**	**0**					
Cyflufenamid (fungicide)							
Cabbage	354	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,214**	**0**					
Cyflumetofen (acaricide)							
Cranberries	311	0			0.020 ^		NT
Cranberries, Frozen	409	0			0.020 ^		NT
Grapefruit	526	0			0.003 - 0.20		0.30
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,090**	**0**					
Cyfluthrin (insecticide)							
Applesauce	570	0			0.004 ^		0.5
Asparagus	354	0			0.004 ^		0.05
Cabbage	354	4	1.1	0.006 - 0.020	0.005 ^		2.5
Cranberries	311	0			0.050 ^		0.05
Cranberries, Frozen	428	0			0.050 ^		0.05
Cucumbers	378	3	0.8	0.006 - 0.019	0.005 ^		0.1
Garbanzo Beans, Canned	189	0			0.025 ^		0.05
Grapefruit	526	0			0.010 ^		0.2
Kale	708	79	11.2	0.013 - 2.6	0.008 ^		7.0
Lettuce	378	3	0.8	0.036 - 0.29	0.004 ^		2.0/3.0 [&]
Mangoes	177	0			0.003 - 0.050		0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	754	0			0.003 - 0.010		0.05
Onions	708	0			0.005 - 0.008		0.05
Pineapple, Canned	756	0			0.005 - 0.045		0.05
Plums, Dried / Prunes	191	0			0.004 ^		0.3
Snap Peas	710	0			0.008 ^		0.25
Sweet Potatoes	701	0			0.045 ^		0.01
Tomatoes, Canned	566	0			0.008 - 0.025		0.20
TOTAL	**8,759**	**89**					
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)							
Applesauce	570	0			0.005 ^		0.30
Asparagus	354	0			0.005 ^		0.01
Cabbage	354	6	1.7	0.015 - 0.048	0.008 ^		0.40
Cranberries	311	0			0.005 ^		0.01
Cranberries, Frozen	428	0			0.005 ^		0.01
Cucumbers	378	6	1.6	0.009 - 0.022	0.008 ^		0.05
Garbanzo Beans, Canned	189	0			0.003 ^		0.01
Grapefruit	526	0			0.010 - 0.025		0.01
Lettuce	378	26	6.9	0.009 - 0.64	0.005 ^		2.0
Mangoes	177	1	0.6	0.005 ^	0.003 - 0.010		0.01
Olives, Canned	754	0			0.003 - 0.010		0.01
Onions	708	0			0.003 - 0.008		0.1
Pineapple, Canned	756	0			0.008 - 0.015		0.01
Plums, Dried / Prunes	191	0			0.005 ^		0.50
Sweet Potatoes	701	0			0.015 ^		0.02
Tomatoes, Canned	566	17	3	0.005 - 0.029	0.003 ^		0.1
TOTAL	**7,341**	**56**					
Cyhalothrin, Lambda (includes gamma isomer)							
Kale	708	55	7.8	0.003 - 0.33	0.002 ^	X-16	0.01
Snap Peas	710	146	20.6	0.003 - 0.091	0.002 ^		0.20
TOTAL	**1,418**	**201**					
Cymoxanil (fungicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	237	0			0.005 ^		NT
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	526	0			0.010 ^		NT
Lettuce	378	4	1.1	0.006 - 0.098	0.002 ^		19
Mangoes	177	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	330	0			0.003 - 0.010		0.05
Pineapple, Canned	359	0			0.020 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.003 ^		0.2
TOTAL	**5,717**	**4**					
Cypermethrin (insecticide)							
Applesauce	570	0			0.010 ^		2
Asparagus	354	2	0.6	0.020 - 0.14	0.010 ^	X-1	0.05
Cabbage	354	9	2.5	0.013 - 0.065	0.010 ^		2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.050 ^		0.8
Cranberries, Frozen	428	0			0.050 ^		0.8
Cucumbers	378	12	3.2	0.011 - 0.094	0.010 ^		0.2
Garbanzo Beans, Canned	189	0			0.075 ^		0.1
Grapefruit	526	0			0.020 - 0.025		0.35
Kale	708	203	28.7	0.020 - 4.2	0.012 ^		14.0
Lettuce	378	10	2.6	0.022 - 0.25	0.010 ^		4.0/10.00 &
Mangoes	177	1	0.6	0.011 ^	0.010 - 0.050		0.70
Olives, Canned	754	0			0.010 - 0.020		0.05
Onions	708	0			0.010 - 0.022		0.1
Pineapple, Canned	756	0			0.010 - 0.070		0.05
Plums, Dried / Prunes	191	4	2.1	0.012 - 0.073	0.010 ^		1
Snap Peas	710	88	12.4	0.020 - 0.61	0.012 ^	X-1	0.5
Sweet Potatoes	701	0			0.070 ^		0.1
Tomatoes, Canned	566	0			0.022 ^		0.2
TOTAL	**8,759**	**329**					
Cyphenothrin (insecticide)							
Applesauce	570	0			0.015 ^		NT
Asparagus	354	0			0.015 ^		NT
Cabbage	354	0			0.008 ^		NT
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Grapefruit	526	0			0.010 - 0.050		NT
Kale	708	0			0.030 ^		NT
Lettuce	378	0			0.015 ^		NT
Mangoes	177	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.010 ^		NT
Pineapple, Canned	359	0			0.060 ^		NT
Plums, Dried / Prunes	191	0			0.015 ^		NT
Snap Peas	710	0			0.030 ^		NT
Sweet Potatoes	701	0			0.060 ^		NT
TOTAL	**6,521**	**0**					
Cyproconazole (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
Pineapple, Canned	359	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,668**	**0**					
Cyprodinil (fungicide)							
Applesauce	570	59	10.4	0.005 - 0.015	0.005 ^		1.7
Asparagus	354	0			0.005 ^		NT
Cabbage	354	1	0.3	0.006 ^	0.005 ^		1.0
Cranberries	311	0			0.005 ^		3.0
Cranberries, Frozen	428	0			0.005 ^		3.0
Cucumbers	378	30	7.9	0.007 - 0.11	0.005 ^		0.70
Garbanzo Beans, Canned	189	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	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	526	0			0.005 - 0.055		NT
Kale	708	13	1.8	0.005 - 0.30	0.003 ^		10.0
Lettuce	378	0			0.005 ^		50
Mangoes	177	0			0.003 - 0.005		1.2
Olives, Canned	754	0			0.003 - 0.005		NT
Onions	348	0			0.005 ^		0.6
Pineapple, Canned	756	0			0.005 - 0.015		NT
Plums, Dried / Prunes	191	1	0.5	0.006 ^	0.005 ^		2.0
Sweet Potatoes	701	0			0.015 ^		0.01
TOTAL	**7,123**	**104**					
Cyprosulfamide (herbicide safener)							
Cranberries	311	0			0.004 ^		NT
Cranberries, Frozen	428	0			0.004 ^		NT
Grapefruit	526	0			0.002 - 0.003		NT
Mangoes	177	0			0.003 - 0.004		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,196**	**0**					
Cyromazine (insect growth regulator)							
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Garbanzo Beans, Canned	189	0			0.008 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		0.3
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**2,043**	**0**					
DCPA (herbicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cabbage	354	0			0.005 ^		5
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.010		NT
Kale	708	389	54.9	0.002 - 0.74	0.001 ^		5.0
Lettuce	378	17	4.5	0.002 - 0.008	0.002 ^		2.0
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	679	0			0.001 - 0.005		1.0
Pineapple, Canned	693	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Snap Peas	710	53	7.5	0.002 - 0.014	0.001 ^	V-53	NT
Sweet Potatoes	701	0			0.020 ^		2.0
Tomatoes, Canned	566	0			0.001 ^		1.0
TOTAL	**8,667**	**459**					
DEF - Tribufos (herbicide, plant growth regulator)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Deltamethrin (includes parent Tralomethrin) (insecticide)							
Applesauce	570	0			0.015 ^		0.2
Asparagus	354	0			0.015 ^		0.05
Cabbage	354	0			0.008 ^		0.05
Cranberries	311	0			0.050 ^		0.05
Cranberries, Frozen	428	0			0.050 ^		0.05
Cucumbers	378	0			0.008 ^		0.2
Garbanzo Beans, Canned	189	0			0.040 ^		0.05
Grapefruit	526	0			0.005 - 0.50		0.05
Kale	708	5	0.7	0.007 - 1.9	0.004 ^	X-3	0.05
Lettuce	378	0			0.015 ^		0.05
Mangoes	177	0			0.001 - 0.050		0.05
Olives, Canned	754	0			0.001 - 0.005		0.05
Onions	708	0			0.008 - 0.012		0.1
Pineapple, Canned	756	0			0.008 - 0.12		0.05
Plums, Dried / Prunes	191	0			0.015 ^		0.05
Snap Peas	710	34	4.8	0.007 - 0.16	0.004 ^	X-1	0.05
Sweet Potatoes	701	1	0.1	0.12 ^	0.12 ^	X-1	0.05
Tomatoes, Canned	566	0			0.012 ^		0.2
TOTAL	**8,759**	**40**					
Demeton-O (metabolite of the insecticide Demeton)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**1,115**	**0**					
Demeton-S (metabolite of Demeton)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
TOTAL	**1,115**	**0**					
Demeton-S sulfone (metabolite of Demeton-S)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Desethyl atrazine (herbicide metabolite)							
Mangoes	30	0			0.003 ^		NT
Olives, Canned	61	0			0.003 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**1,017**	**0**					
Desisopropyl atrazine (herbicide metabolite)							
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**566**	**0**					
Desmedipham (herbicide)							
Pineapple, Canned	359	0			0.030 ^		NT
Sweet Potatoes	672	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	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**1,031**	**0**					
Desmetryn (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Dialifos (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Diazinon (insecticide)							
Applesauce	570	0			0.005 ^		0.50
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.002 ^		0.70
Cranberries	311	3	1	0.005 - 0.007	0.005 ^		0.50
Cranberries, Frozen	428	0			0.005 ^		0.50
Cucumbers	378	2	0.5	0.010 - 0.034	0.002 ^		0.75
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Kale	708	3	0.4	0.002 - 0.22	0.001 ^		0.70
Lettuce	378	0			0.005 ^		0.70
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.002		0.75
Pineapple, Canned	756	0			0.002 - 0.010		0.50
Plums, Dried / Prunes	191	0			0.005 ^		0.20
Snap Peas	710	2	0.3	0.002 - 0.005	0.001 ^		0.50
Sweet Potatoes	701	0			0.010 ^		0.10
Tomatoes, Canned	566	0			0.001 ^		0.75
TOTAL	**8,759**	**10**					
Diazinon oxygen analog (metabolite of Diazinon)							
Cabbage	354	0			0.001 ^		0.70
Cranberries	246	0			0.005 ^		0.50
Cranberries, Frozen	317	0			0.005 ^		0.50
Cucumbers	378	0			0.001 ^		0.75
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Kale	708	0			0.001 ^		0.70
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 ^		0.75
Pineapple, Canned	756	0			0.001 - 0.010		0.50
Snap Peas	710	0			0.001 ^		0.50
Sweet Potatoes	701	0			0.010 ^		0.10
Tomatoes, Canned	566	0			0.001 ^		0.75
TOTAL	**7,090**	**0**					
Dichlobenil (herbicide)							
Applesauce	570	0			0.010 ^		0.5
Asparagus	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.002 ^		0.15
Cranberries, Frozen	428	0			0.002 ^		0.15
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.010 ^		0.15
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,086**	**0**					
Dichlofenthion (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Dichlormid (herbicide safener)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Mangoes	177	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.020 ^		NT
TOTAL	**2,196**	**0**					
Dichlorprop (herbicide)							
Grapefruit	271	0			0.050 ^		NT
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)							
Applesauce	570	0			0.020 ^		0.5
Asparagus	354	0			0.020 ^		0.5
Cabbage	354	0			0.010 ^		1.0
Cranberries	311	0			0.005 ^		0.5
Cranberries, Frozen	428	0			0.005 ^		0.5
Cucumbers	378	3	0.8	0.011 - 0.051	0.010 ^		0.5
Garbanzo Beans, Canned	189	0			0.002 ^		0.5
Grapefruit	526	0			0.005 - 0.020		3
Lettuce	378	0			0.020 ^		0.5
Mangoes	177	0			0.005 - 0.020		0.5
Olives, Canned	754	0			0.020 ^		0.5
Onions	708	0			0.005 - 0.010		0.5
Pineapple, Canned	756	0			0.005 - 0.010		0.5
Plums, Dried / Prunes	191	0			0.020 ^		0.5
Snap Peas	710	0			0.050 ^		0.5
Sweet Potatoes	701	0			0.005 ^		0.5
TOTAL	**7,485**	**3**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Diclofop methyl (herbicide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
TOTAL	**1,493**	**0**					
Dicloran (fungicide)							
Applesauce	570	0			0.016 ^		NT
Asparagus	354	0			0.016 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	7	1.9	0.006 - 0.12	0.005 ^		5
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.020 - 0.10		NT
Lettuce	378	0			0.016 ^		10
Mangoes	177	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		NT
Onions	708	8	1.1	0.004 - 0.029	0.002 - 0.005		10
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.016 ^		15
Snap Peas	710	0			0.030 ^		NT
Sweet Potatoes	701	179	25.5	0.022 - 4.7	0.020 ^		10
Tomatoes, Canned	566	0			0.002 ^		5
TOTAL	**8,051**	**194**					
Diclosulam (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	30	0			0.003 ^		NT
Olives, Canned	691	0			0.003 - 0.010		NT
TOTAL	**992**	**0**					
Dicofol Total (insecticide)							
Mangoes	30	0			0.003 ^		NT
Olives, Canned	61	0			0.003 ^		NT
TOTAL	**91**	**0**					
Dicofol o,p' (isomer of Dicofol)							
Grapefruit	271	0			0.005 ^		6.0
Mangoes	60	0			0.005 ^		NT
Olives, Canned	693	0			0.005 ^		NT
Pineapple, Canned	329	0			0.015 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**2,054**	**0**					
Dicofol p,p' (isomer of Dicofol)							
Applesauce	570	0			0.010 ^		10.0
Asparagus	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		6.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Lettuce	378	0			0.010 ^		NT
Mangoes	147	0			0.005 ^		NT
Olives, Canned	693	0			0.005 ^		NT
Onions	360	0			0.001 ^		NT
Pineapple, Canned	329	0			0.025 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		5.0
Sweet Potatoes	701	0			0.025 ^		NT
Tomatoes, Canned	566	0			0.001 ^		2.0
TOTAL	**5,743**	**0**					
Dicrotophos (insecticide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Diethofencarb (fungicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Difenoconazole (fungicide)							
Applesauce	570	0			0.010 ^		5.0
Asparagus	354	0			0.010 ^		NT
Cabbage	354	2	0.6	0.011 - 0.022	0.005 ^		1.9
Cranberries	311	0			0.002 ^		4.0
Cranberries, Frozen	428	0			0.002 ^		4.0
Cucumbers	378	1	0.3	0.023 ^	0.005 ^		0.70
Garbanzo Beans, Canned	189	0			0.010 ^		NT
Grapefruit	526	0			0.003 - 0.005		0.60
Kale	708	39	5.5	0.002 - 1.6	0.001 ^		35
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.003		0.07
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		0.20
Pineapple, Canned	756	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		2.5
Sweet Potatoes	701	2	0.3	0.006 - 0.013	0.005 ^		4.0
Tomatoes, Canned	566	37	6.5	0.003 - 0.021	0.003 ^		0.60
TOTAL	**8,049**	**81**					
Diflubenzuron (insecticide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.001 - 0.002		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.020		3.0
Kale	708	3	0.4	0.035 - 1.4	0.005 ^		9.0
Lettuce	378	1	0.3	0.002 ^	0.002 ^	V-1	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.003 ^		NT
Pineapple, Canned	359	0			0.080 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		0.50
Sweet Potatoes	701	0			0.080 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,572**	**4**					
Diflufenzopyr (herbicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	255	0			0.001 ^		NT
TOTAL	**994**	**0**					
Dimepiperate (herbicide)							
Mangoes	30	0			0.003 ^		NT
Olives, Canned	61	0			0.003 ^		NT
TOTAL	**91**	**0**					
Dimethenamid (herbicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.001 - 0.002		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Lettuce	378	0			0.002 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 - 0.003		0.01
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.010 ^		0.01
Tomatoes, Canned	566	0			0.001 - 0.003		NT
TOTAL	**6,218**	**0**					
Dimethoate (insecticide) (parent of Omethoate)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	2	0.6	0.079 - 1.8	0.005 ^	X-1	0.15
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.001 ^		2.0
Kale	708	4	0.6	0.025 - 0.14	0.015 ^		2.0
Lettuce	378	0			0.005 ^		2.0
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.010		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	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	Tolerance Violation	EPA Tolerance Level, ppm
Snap Peas	710	105	14.8	0.025 - 2.0	0.015 ^		2.0
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		2.0
TOTAL	**8,759**	**111**					
Dimethomorph (fungicide)							
Applesauce	570	0			0.003 ^		NT
Asparagus	354	0			0.003 ^		NT
Cabbage	354	2	0.6	0.014 - 0.033	0.010 ^		6.0
Cranberries	311	0			0.020 ^		NT
Cranberries, Frozen	428	0			0.020 ^		NT
Cucumbers	378	7	1.9	0.011 - 0.026	0.010 ^		0.5
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.25		NT
Kale	708	41	5.8	0.050 - 13.7	0.030 ^		30.0
Lettuce	378	74	19.6	0.003 - 1.5	0.003 ^		30.0
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.010		0.6
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.003 ^		NT
Snap Peas	710	0			0.030 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	10	1.8	0.002 - 0.009	0.001 ^		1.5
TOTAL	**8,759**	**134**					
Diniconazole (fungicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**1,115**	**0**					
Dinotefuran (insecticide)							
Applesauce	570	4	0.7	0.003 - 0.005	0.003 ^		2.0
Asparagus	354	0			0.003 ^		0.01
Cabbage	354	3	0.8	0.012 - 0.040	0.010 ^		1.4
Cranberries	311	0			0.040 ^		0.2
Cranberries, Frozen	428	0			0.040 ^		0.2
Cucumbers	378	19	5	0.010 - 0.16	0.010 ^		0.5
Garbanzo Beans, Canned	189	0			0.006 ^		0.01
Grapefruit	526	0			0.003 - 0.040		0.01
Kale	708	12	1.7	0.083 - 0.64	0.050 ^		15.0
Lettuce	378	1	0.3	0.003 ^	0.003 ^		5.0
Mangoes	177	0			0.003 - 0.040		0.01
Olives, Canned	754	0			0.003 ^		0.01
Onions	348	2	0.6	0.012 - 0.015	0.010 ^		0.15
Pineapple, Canned	756	0			0.010 - 0.015		0.01
Plums, Dried / Prunes	191	0			0.003 ^		2.0
Snap Peas	710	0			0.050 ^		0.01
Sweet Potatoes	701	0			0.015 ^		0.05
Tomatoes, Canned	566	0			0.020 ^		0.7
TOTAL	**8,399**	**41**					
Dioxacarb (insecticide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Dioxathion (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Diphenamid (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	397	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**3,707**	**0**					
Diphenylamine - DPA (plant growth regulator)							
Applesauce	570	279	48.9	0.002 - 0.12	0.002 ^		10.0
Asparagus	354	2	0.6	0.004 - 0.007	0.002 ^	V-2	NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	1	0.5	0.021 ^	0.003 ^	V-1	NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	1	0.3	0.004 ^	0.002 ^	V-1	NT
Mangoes	90	1	1.1	0.001 ^	0.001 - 0.003	V-1	NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.003 - 0.005		NT
Pineapple, Canned	726	0			0.005 - 0.065		NT
Plums, Dried / Prunes	191	18	9.4	0.002 - 0.010	0.002 ^	V-18	NT
Sweet Potatoes	701	0			0.065 ^		NT
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**6,230**	**302**					
Dipropetryn (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Disulfoton (insecticide)							
Cabbage	354	0			0.005 ^		0.75
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 - 0.020		NT
Onions	708	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.10		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Snap Peas	710	0			0.050 ^		NT
Sweet Potatoes	701	0			0.050 ^		NT
Tomatoes, Canned	566	0			0.002 - 0.005		NT
TOTAL	**5,477**	**0**					
Disulfoton oxygen analog (metabolite of Disulfoton)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		0.1
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	255	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		0.75/2 &
Mangoes	87	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
Snap Peas	710	0			0.030 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**5,459**	**0**					
Disulfoton sulfone (metabolite of Disulfoton)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 ^		0.1
Cabbage	354	0			0.010 ^		0.75
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.020 ^		0.75/2 &
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Snap Peas	710	0			0.040 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,970**	**0**					
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Onions	360	0			0.003 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Snap Peas	710	0			0.10 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,885**	**0**					
Disulfoton sulfoxide (metabolite of Disulfoton)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		0.1
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	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	Tolerance Violation	EPA Tolerance Level, ppm
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Lettuce	378	0			0.005 ^		0.75/2 [&]
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Snap Peas	710	0			0.020 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,574**	**0**					
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)							
Onions	360	0			0.001 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Snap Peas	710	0			0.040 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,696**	**0**					
Ditalimfos (fungicide)							
Mangoes	30	0			0.005 ^		NT
Olives, Canned	61	0			0.005 ^		NT
TOTAL	**91**	**0**					
Diuron (herbicide)							
Applesauce	570	0			0.002 ^		0.1
Asparagus	354	2	0.6	0.002 ^	0.001 - 0.002		7
Cranberries	311	0			0.010 ^		0.1
Cranberries, Frozen	428	0			0.010 ^		0.1
Garbanzo Beans, Canned	189	0			0.004 ^		NT
Grapefruit	526	0			0.010 ^		0.05
Lettuce	378	2	0.5	0.002 - 0.004	0.002 ^	V-2	NT
Mangoes	177	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		1
Onions	360	0			0.004 - 0.012		NT
Pineapple, Canned	359	0			0.015 ^		0.1
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.004 ^		NT
TOTAL	**5,864**	**4**					
DMST (4-dimethylaminosulphotosluidide) (metabolite of Tolyfluanid)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Dodine (fungicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Emamectin (insecticide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
TOTAL	**1,115**	**0**					
Emamectin benzoate [1] (insecticide)							
Applesauce	570	0			0.010 ^		0.025
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		0.050
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Kale	708	12	1.7	0.003 - 0.042	0.002 ^		0.050
Lettuce	378	0			0.010 ^		0.100
Onions	320	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		0.020
TOTAL	**4,027**	**12**					
Endosulfan I (insecticide)							
Applesauce	570	0			0.010 ^		1.0
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		4.0
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.005 ^		2.0
Grapefruit	526	0			0.010 - 0.020		NT
Kale	708	1	0.1	0.29 ^	0.004 ^		2.0
Lettuce	378	0			0.010 ^		11.0/6.0 [&]
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 - 0.020		NT
Onions	708	0			0.005 ^		NT
Pineapple, Canned	726	0			0.005 - 0.030		1.0
Plums, Dried / Prunes	191	0			0.010 ^		2.0
Sweet Potatoes	701	0			0.030 ^		0.15
Tomatoes, Canned	566	2	0.4	0.008 ^	0.005 ^		1.0
TOTAL	**8,019**	**3**					
Endosulfan II (isomer of Endosulfan)							
Applesauce	570	0			0.015 ^		1.0
Asparagus	354	0			0.015 ^		NT
Cabbage	354	0			0.005 ^		4.0
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.001 ^		2.0
Grapefruit	526	0			0.005 - 0.010		NT
Kale	708	1	0.1	0.37 ^	0.012 ^		2.0
Lettuce	378	0			0.015 ^		11.0/6.0 [&]
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	726	0			0.005 - 0.085		1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Plums, Dried / Prunes	191	0			0.015 ^		2.0
Sweet Potatoes	701	0			0.085 ^		0.15
Tomatoes, Canned	566	4	0.7	0.002 - 0.007	0.001 ^		1.0
TOTAL	**8,019**	**5**					
Endosulfan sulfate (metabolite of Endosulfan)							
Applesauce	570	0			0.005 ^		1.0
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		4.0
Cranberries	310	0			0.015 ^		NT
Cranberries, Frozen	428	0			0.015 ^		NT
Cucumbers	378	2	0.5	0.007 - 0.009	0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.005 - 0.018		2.0
Grapefruit	526	0			0.010 - 0.025		NT
Kale	708	7	1	0.003 - 0.39	0.002 ^		2.0
Lettuce	378	0			0.005 ^		11.0/6.0 [&]
Mangoes	177	0			0.003 - 0.015		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	708	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.040		1.0
Plums, Dried / Prunes	191	0			0.005 ^		2.0
Sweet Potatoes	701	0			0.040 ^		0.15
Tomatoes, Canned	566	0			0.018 ^		1.0
TOTAL	**8,048**	**9**					
EPN (insecticide)							
Grapefruit	271	0			0.020 ^		NT
Kale	708	0			0.005 ^		NT
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
Pineapple, Canned	359	0			0.040 ^		NT
Snap Peas	710	0			0.005 ^		NT
Sweet Potatoes	701	0			0.040 ^		NT
TOTAL	**3,593**	**0**					
Epoxiconazole (fungicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
EPTC (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	255	0			0.005 ^		0.1
Mangoes	87	0			0.005 ^		NT
Onions	708	0			0.001 - 0.010		0.1
Pineapple, Canned	756	0			0.010 - 0.035		NT
Sweet Potatoes	701	0			0.035 ^		0.1
TOTAL	**4,167**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Esfenvalerate+Fenvalerate Total (insecticide)							
Applesauce	570	0			0.005 ^		1.0
Asparagus	354	0			0.005 ^		0.05
Cabbage	354	0			0.005 ^		3.0
Cranberries	311	0			0.050 ^		0.05
Cranberries, Frozen	428	0			0.050 ^		0.05
Cucumbers	378	0			0.005 ^		0.5
Garbanzo Beans, Canned	189	0			0.008 ^		0.05
Grapefruit	255	0			0.025 ^		0.05
Lettuce	378	0			0.005 ^		5.0
Mangoes	87	0			0.050 ^		0.05
Onions	708	0			0.002 - 0.005		0.05
Pineapple, Canned	397	0			0.005 ^		0.05
Plums, Dried / Prunes	191	1	0.5	0.007 ^	0.005 ^		3.0
Tomatoes, Canned	566	6	1.1	0.004 ^	0.002 ^		0.5
TOTAL	**5,166**	**7**					
Esfenvalerate (isomer of Fenvalerate)							
Grapefruit	271	0			0.005 ^		0.05
Kale	708	5	0.7	0.005 - 0.017	0.003 ^		0.05
Mangoes	90	0			0.005 ^		0.05
Olives, Canned	754	0			0.005 ^		0.05
Pineapple, Canned	359	0			0.035 ^		0.05
Snap Peas	710	10	1.4	0.005 - 0.030	0.003 ^		0.5
Sweet Potatoes	701	0			0.035 ^		0.05
TOTAL	**3,593**	**15**					
Ethalfluralin (herbicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.010 ^		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	360	0			0.002 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**5,864**	**0**					
Ethiofencarb (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	168	0			0.002 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	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	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	397	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 - 0.008		NT
TOTAL	**3,686**	**0**					
Ethiofencarb sulfone (metabolite of Ethiofencarb)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Ethiofencarb sulfoxide (metabolite of Ethiofencarb)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Ethion (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.015		NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,767**	**0**					
Ethion mono oxon (metabolite of Ethion)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Ethiprole (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Ethofumesate (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**2,175**	**0**					
Ethoprop (insecticide)							
Cabbage	354	0			0.010 ^		0.02

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		0.02
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		0.02
Snap Peas	710	0			0.001 ^		NT
Sweet Potatoes	701	0			0.005 ^		0.02
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,558**	**0**					
Ethoxyquin (plant growth regulator)							
Kale	708	0			0.007 ^		NT
Mangoes	87	0			0.005 ^		NT
Snap Peas	710	0			0.007 ^		NT
TOTAL	**1,505**	**0**					
Ethylan (insecticide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
Etofenprox (insecticide)							
Applesauce	570	0			0.025 ^		5.0
Asparagus	354	0			0.025 ^		5.0
Cranberries	281	0			0.010 ^		5.0
Cranberries, Frozen	423	0			0.010 ^		5.0
Garbanzo Beans, Canned	189	0			0.002 ^		5.0
Grapefruit	526	0			0.010 - 0.020		5.0
Kale	708	2	0.3	0.002 ^	0.001 ^		5.0
Lettuce	378	0			0.025 ^		5.0
Mangoes	177	0			0.001 - 0.020		5.0
Olives, Canned	754	0			0.001 - 0.020		5.0
Onions	360	0			0.002 ^		5.0
Pineapple, Canned	359	0			0.035 ^		5.0
Plums, Dried / Prunes	191	0			0.025 ^		5.0
Snap Peas	710	0			0.001 ^		5.0
Sweet Potatoes	701	0			0.035 ^		5.0
Tomatoes, Canned	566	0			0.002 ^		5.0
TOTAL	**7,247**	**2**					
Etoxazole (acaricide)							
Cabbage	354	0			0.004 ^		NT
Cranberries	311	0			0.001 ^		0.50
Cranberries, Frozen	428	0			0.001 ^		0.50
Cucumbers	378	0			0.004 ^		0.02
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Mangoes	177	0			0.001 ^		0.20

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.004 ^		NT
Pineapple, Canned	397	0			0.004 ^		NT
Tomatoes, Canned	566	0			0.001 ^		0.20
TOTAL	**4,428**	**0**					
Etridiazole (fungicide)							
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.040		NT
Mangoes	177	0			0.005 - 0.040		NT
Olives, Canned	754	0			0.005 - 0.040		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**4,733**	**0**					
Etrimfos (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Famoxadone (fungicide)							
Applesauce	570	0			0.025 ^		NT
Asparagus	354	0			0.025 ^		NT
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Garbanzo Beans, Canned	147	0			0.008 ^		NT
Grapefruit	526	0			0.010 - 0.050		NT
Lettuce	378	11	2.9	0.031 - 1.2	0.025 ^		25
Mangoes	177	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	360	0			0.002 ^		0.45
Pineapple, Canned	359	0			0.050 ^		NT
Plums, Dried / Prunes	191	0			0.025 ^		NT
Sweet Potatoes	701	0			0.050 ^		NT
Tomatoes, Canned	566	11	1.9	0.004 - 0.014	0.002 - 0.008		1.0
TOTAL	**5,822**	**22**					
Famphur (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Fenamidone (fungicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	325	0			0.005 ^		NT
Cabbage	354	1	0.3	0.052 ^	0.010 ^		5.0
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Cucumbers	378	0			0.010 ^		0.15

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	1	0.2	0.001 ^	0.001 ^	V-1	NT
Kale	708	41	5.8	0.008 - 8.7	0.005 ^		60
Lettuce	378	69	18.3	0.005 - 3.2	0.005 ^		60
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.010		0.20
Pineapple, Canned	756	0			0.010 - 0.060		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.060 ^		0.02
Tomatoes, Canned	566	0			0.002 ^		1.0
TOTAL	**8,020**	**112**					
Fenamiphos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		0.3
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,767**	**0**					
Fenamiphos sulfone (metabolite of Fenamiphos)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		0.3
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**4,767**	**0**					
Fenamiphos sulfoxide (metabolite of Fenamiphos)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		0.3
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**4,767**	**0**					
Fenarimol (fungicide)							
Cabbage	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		0.20
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.003 - 0.005		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	726	0			0.005 - 0.015		NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**5,818**	**0**					
Fenazaquin (insecticide, acaricide)							
Applesauce	570	0			0.005 ^		0.2
Asparagus	89	0			0.005 ^		NT
Cranberries	258	0			0.005 ^		NT
Cranberries, Frozen	417	0			0.005 ^		NT
Grapefruit	526	0			0.001 - 0.010		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
TOTAL	**3,360**	**0**					
Fenbuconazole (fungicide)							
Applesauce	570	0			0.005 ^		0.4
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	32	10.3	0.001 - 0.012	0.001 ^		0.5
Cranberries, Frozen	428	58	13.6	0.001 - 0.036	0.001 ^		0.5
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.003		1.0
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		1.0
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**90**					
Fenchlorphos (insecticide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
Fenhexamid (fungicide)							
Applesauce	570	0			0.013 ^		NT
Asparagus	354	0			0.013 ^		0.02
Cabbage	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.010 ^		5.0
Cranberries, Frozen	428	0			0.010 ^		5.0
Cucumbers	378	0			0.010 ^		2.0
Grapefruit	526	0			0.002 - 0.010		NT
Lettuce	378	0			0.013 ^		30.0
Mangoes	177	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	1	0.5	0.064 ^	0.013 ^		2.5
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	62	0			0.030 ^		2.0
TOTAL	**6,288**	**1**					
Fenitrothion (insecticide)							
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	360	0			0.002 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**2,230**	**0**					
Fenobucarb - BPMC (insecticide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Fenoxaprop ethyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Fenoxycarb (insecticide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Fenpropathrin (insecticide)							
Applesauce	570	0			0.020 ^		5.0
Asparagus	354	0			0.020 ^		NT
Cabbage	354	0			0.005 ^		3.0
Cranberries	311	0			0.005 ^		3.0
Cranberries, Frozen	428	0			0.005 ^		3.0
Cucumbers	378	3	0.8	0.005 - 0.11	0.005 ^		0.5
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.005 - 0.010		2.0
Kale	708	1	0.1	0.003 ^	0.002 ^	V-1	NT
Lettuce	378	0			0.020 ^		NT
Mangoes	177	0			0.001 - 0.005		1.0
Olives, Canned	754	137	18.2	0.001 - 0.16	0.001 - 0.005		5.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.020 ^		1.4
Snap Peas	710	0			0.002 ^		0.02
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	6	1.1	0.004 ^	0.002 ^		1.0
TOTAL	**8,759**	**147**					
Fenpropidin (fungicide)							
Grapefruit	271	0			0.040 ^		NT
Mangoes	90	0			0.040 ^		NT
Olives, Canned	722	0			0.040 ^		NT
TOTAL	**1,083**	**0**					
Fenpropimorph (fungicide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
TOTAL	**4,085**	**0**					
Fenpyrazamine (fungicide)							
Cranberries	311	0			0.001 ^		5
Cranberries, Frozen	428	0			0.001 ^		5
Grapefruit	271	0			0.020 ^		NT
Mangoes	177	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
TOTAL	**1,941**	**0**					
Fenpyroximate (acaricide)							
Applesauce	570	0			0.005 ^		0.30
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	1	0.3	0.016 ^	0.010 ^		0.40
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	271	0			0.001 ^		0.50
Lettuce	378	0			0.005 ^		NT
Mangoes	148	0			0.001 - 0.010		0.15
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	1	0.5	0.006 ^	0.005 ^		2.0
Snap Peas	710	1	0.1	0.087 ^	0.001 ^	V-1	NT
Tomatoes, Canned	566	0			0.003 ^		0.20
TOTAL	**5,608**	**3**					
Fensulfothion (insecticide, fumigant)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Fenthion (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.015		NT
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**3,841**	**0**					
Fenthion oxygen analog sulfone (metabolite of Fenthion)							
Pineapple, Canned	359	0			0.015 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**1,060**	**0**					
Fenthion oxygen analog sulfoxide (metabolite of Fenthion)							
Pineapple, Canned	359	0			0.015 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**1,060**	**0**					
Fenthion sulfone (metabolite of Fenthion)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
Pineapple, Canned	359	0			0.12 ^		NT
Sweet Potatoes	701	0			0.12 ^		NT
TOTAL	**2,175**	**0**					
Fenthion sulfoxide (metabolite of Fenthion)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.010 - 0.020		NT
Olives, Canned	754	0			0.010 - 0.020		NT
Pineapple, Canned	359	0			0.020 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
TOTAL	**2,175**	**0**					
Fenuron (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Fipronil (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	30	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	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	691	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,644**	**0**					
Fipronil sulfone - MB46136 (metabolite of Fipronil)							
Applesauce	570	0			0.050 ^		NT
Asparagus	354	0			0.050 ^		NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	0			0.050 ^		NT
Mangoes	30	0			0.001 ^		NT
Olives, Canned	691	0			0.001 - 0.003		NT
Plums, Dried / Prunes	191	0			0.050 ^		NT
TOTAL	**2,485**	**0**					
Flazasulfuron (herbicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 ^		0.01
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		0.01
TOTAL	**2,196**	**0**					
Flonicamid (insecticide)							
Applesauce	570	0			0.006 ^		0.20
Asparagus	354	0			0.006 ^		NT
Cabbage	354	4	1.1	0.010 - 0.046	0.010 ^		1.5
Cranberries	311	0			0.050 ^		1.5
Cranberries, Frozen	428	0			0.050 ^		1.5
Cucumbers	378	30	7.9	0.011 - 0.32	0.010 ^		1.5
Garbanzo Beans, Canned	189	0			0.003 ^		7.0
Grapefruit	526	0			0.010 - 0.10		1.5
Kale	708	37	5.2	0.083 - 4.8	0.050 ^		16
Lettuce	378	22	5.8	0.006 - 1.0	0.006 ^		4.0
Mangoes	177	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.006 ^		0.60
Sweet Potatoes	701	0			0.005 ^		0.20
Tomatoes, Canned	566	0			0.001 ^		0.4
TOTAL	**8,049**	**93**					
Fluazifop (herbicide)							
Grapefruit	271	0			0.050 ^		0.03
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Fluazifop butyl (herbicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	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	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	526	0			0.001 - 0.005		0.03
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 - 0.003		0.5
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,311**	**0**					
Fluazinam (fungicide)							
Grapefruit	271	0			0.003 ^		NT
Kale	708	0			0.010 ^		0.01
Olives, Canned	630	0			0.003 ^		NT
Snap Peas	710	0			0.010 ^		0.10
TOTAL	**2,319**	**0**					
Flubendiamide (insecticide)							
Applesauce	570	121	21.2	0.004 - 0.015	0.004 ^		1.5
Cranberries	311	0			0.020 ^		NT
Cranberries, Frozen	428	0			0.020 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		0.05
Grapefruit	526	0			0.003 ^		NT
Kale	708	21	3	0.005 - 4.2	0.003 ^		25
Lettuce	282	0			0.004 ^		11
Mangoes	177	0			0.001 - 0.020		NT
Olives, Canned	691	0			0.001 - 0.003		NT
Plums, Dried / Prunes	191	0			0.004 ^		1.6
Snap Peas	710	20	2.8	0.005 - 0.25	0.003 ^		0.50
TOTAL	**4,783**	**162**					
Flucythrinate (insecticide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**1,115**	**0**					
Fludioxonil (fungicide)							
Applesauce	570	80	14	0.026 - 0.37	0.025 ^		5.0
Asparagus	354	0			0.025 ^		NT
Cabbage	354	0			0.005 ^		2.0
Cranberries	311	0			0.005 ^		2.0
Cranberries, Frozen	428	0			0.005 ^		2.0
Cucumbers	378	2	0.5	0.023 - 0.028	0.005 ^		0.45
Garbanzo Beans, Canned	189	0			0.006 - 0.020		0.01
Grapefruit	526	15	2.9	0.010 - 0.078	0.010 - 0.020		10
Kale	708	12	1.7	0.020 - 7.3	0.005 - 0.017		10
Lettuce	378	0			0.025 ^		30
Mangoes	177	0			0.005 - 0.010		5.0
Olives, Canned	754	0			0.010 ^		NT
Onions	708	0			0.005 - 0.006		0.50
Pineapple, Canned	756	0			0.005 - 0.070		20
Plums, Dried / Prunes	191	0			0.025 ^		5.0
Snap Peas	710	1	0.1	0.008 ^	0.005 ^		0.01
Sweet Potatoes	701	161	23	0.066 - 3.0	0.065 - 0.13		6.0
Tomatoes, Canned	566	0			0.006 - 0.020		5.0
TOTAL	**8,759**	**271**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Fluensulfone (nematicide)							
Kale	708	0			0.040 ^		9.0
TOTAL	**708**	**0**					
Flufenacet (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**2,550**	**0**					
Flufenoxuron (insecticide)							
Applesauce	570	0			0.001 ^		0.50
Asparagus	354	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
TOTAL	**2,608**	**0**					
Flufenpyr ethyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Flumetsulam (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Flumiclorac pentyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Flumioxazin (herbicide)							
Applesauce	570	0			0.010 ^		0.02
Asparagus	354	0			0.001 - 0.010		0.02
Cabbage	354	0			0.005 ^		0.02
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.020 ^		0.02
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		0.02
Onions	315	0			0.005 - 0.010		0.02
Pineapple, Canned	359	0			0.020 ^		NT
Plums, Dried / Prunes	191	0			0.001 - 0.010		0.02

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Sweet Potatoes	701	0			0.050 ^		0.02
Tomatoes, Canned	566	0			0.002 - 0.005		0.02
TOTAL	**5,347**	**0**					
Fluometuron (herbicide)							
Cranberries	311	0			0.004 ^		NT
Cranberries, Frozen	428	0			0.004 ^		NT
Grapefruit	526	0			0.002 - 0.003		NT
Mangoes	177	0			0.003 - 0.004		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,196**	**0**					
Fluopicolide (fungicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cabbage	354	4	1.1	0.012 - 0.86	0.010 ^		5.0
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	43	11.4	0.010 - 0.12	0.010 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.002		NT
Kale	708	206	29.1	0.003 - 1.8	0.002 ^		18
Lettuce	378	10	2.6	0.006 - 0.67	0.005 ^		25
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.003 - 0.010		7.0
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.015 ^		0.09
Tomatoes, Canned	566	7	1.2	0.002 - 0.012	0.001 ^		1.60
TOTAL	**8,049**	**270**					
Fluopyram (fungicide)							
Applesauce	570	9	1.6	0.005 - 0.011	0.005 ^		0.80
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.010 ^		4.0
Cranberries	311	0			0.002 ^		7.0
Cranberries, Frozen	428	0			0.002 ^		7.0
Cucumbers	378	14	3.7	0.011 - 0.099	0.010 ^		0.60
Garbanzo Beans, Canned	189	0			0.001 ^		0.20
Grapefruit	526	0			0.001 - 0.002		1.0
Kale	708	58	8.2	0.003 - 2.5	0.002 ^		50
Lettuce	378	2	0.5	0.008 - 0.009	0.005 ^		40
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		0.40
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	1	0.5	0.046 ^	0.005 ^		0.50
Snap Peas	710	2	0.3	0.003 - 0.036	0.002 ^		4.0
Sweet Potatoes	701	1	0.1	0.007 ^	0.005 ^		0.10
TOTAL	**7,833**	**87**					
Fluorodifen (herbicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Fluoxastrobin (fungicide)							
Cabbage	354	0			0.002 ^		NT
Cranberries	311	0			0.001 ^		1.9
Cranberries, Frozen	428	0			0.001 ^		1.9
Cucumbers	378	6	1.6	0.003 - 0.008	0.002 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.003		NT
Pineapple, Canned	756	0			0.002 - 0.015		NT
Sweet Potatoes	701	0			0.015 ^		0.010
Tomatoes, Canned	566	0			0.001 ^		1.0
TOTAL	**5,848**	**6**					
Flupyradifurone (insecticide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	1	0.2	0.003 ^	0.001 - 0.020		3.0
Kale	708	49	6.9	0.050 - 3.8	0.030 ^		40
Mangoes	177	0			0.001 - 0.005		0.60
Olives, Canned	754	0			0.001 ^		0.60
Snap Peas	710	0			0.030 ^		3.0
TOTAL	**3,803**	**50**					
Fluquinconazole (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**3,707**	**0**					
Fluridone (herbicide)							
Applesauce	570	0			0.001 ^		0.1
Asparagus	354	0			0.001 ^		NT
Cabbage	354	0			0.010 ^		0.1
Cranberries	311	0			0.002 ^		0.1
Cranberries, Frozen	428	0			0.002 ^		0.1
Cucumbers	378	0			0.010 ^		0.1
Garbanzo Beans, Canned	189	0			0.001 ^		0.1
Grapefruit	526	0			0.001 ^		0.1
Kale	708	0			0.002 ^		0.1
Lettuce	378	0			0.001 ^		0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	26	3.4	0.001 - 0.002	0.001 ^	V-26	NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.001 ^		0.1
Snap Peas	710	0			0.002 ^		0.1
Sweet Potatoes	701	0			0.005 ^		0.1
Tomatoes, Canned	566	0			0.001 ^		0.1
TOTAL	**8,759**	**26**					
Fluroxypyr (herbicide metabolite)							
Grapefruit	271	0			0.050 ^		NT
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Flusilazole (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**5,145**	**0**					
Fluthiacet methyl (herbicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.003 - 0.005		NT
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,196**	**0**					
Flutolanil (fungicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.001 - 0.002		NT
Grapefruit	271	0			0.001 ^		NT
Kale	708	0			0.004 ^		0.1
Lettuce	378	0			0.002 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
TOTAL	**3,316**	**0**					
Flutriafol (fungicide)							
Applesauce	570	0			0.010 ^		0.40
Asparagus	354	0			0.010 ^		NT
Cranberries	311	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries, Frozen	428	0			0.002 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.025		NT
Kale	708	2	0.3	0.52 - 0.93	0.006 ^		7.0
Lettuce	378	0			0.010 ^		1.5/10 &
Mangoes	177	8	4.5	0.002 - 0.011	0.001 - 0.002	V-8	NT
Olives, Canned	754	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		1.5
TOTAL	**4,586**	**10**					
Fluvalinate (insecticide)							
Applesauce	570	0			0.050 ^		NT
Asparagus	354	0			0.050 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	467	0			0.005 - 0.010		NT
Kale	708	0			0.002 ^		NT
Lettuce	378	0			0.050 ^		NT
Mangoes	147	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.001 - 0.010		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.035		NT
Plums, Dried / Prunes	191	0			0.050 ^		NT
Snap Peas	710	0			0.002 ^		NT
Sweet Potatoes	701	0			0.035 ^		NT
TOTAL	**7,555**	**0**					
Fluxapyroxad (fungicide)							
Cranberries	311	0			0.005 ^		7.0
Cranberries, Frozen	428	0			0.005 ^		7.0
Garbanzo Beans, Canned	189	0			0.001 ^		0.5
Grapefruit	526	0			0.001 - 0.005		1.0
Kale	708	30	4.2	0.005 - 1.9	0.003 ^		4.0
Mangoes	177	0			0.001 - 0.005		0.7
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		1.5
Pineapple, Canned	359	0			0.010 ^		NT
Snap Peas	710	0			0.003 ^		2.0
Sweet Potatoes	701	0			0.010 ^		0.02
Tomatoes, Canned	566	67	11.8	0.002 - 0.030	0.001 ^		0.7
TOTAL	**5,789**	**97**					
Folpet (fungicide)							
Applesauce	536	0			0.030 - 0.060		5.0
Asparagus	235	0			0.030 ^		NT
Cranberries	311	0			0.005 ^		15.0
Cranberries, Frozen	428	0			0.005 ^		15.0
Cucumbers	292	0			0.015 ^		2.0
Mangoes	87	0			0.005 ^		NT
Onions	348	0			0.015 ^		2.0
Pineapple, Canned	397	0			0.015 ^		NT
TOTAL	**2,634**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Fomesafen (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Olives, Canned	630	0			0.005 ^		NT
Snap Peas	710	0			0.030 ^		0.025
TOTAL	**1,611**	**0**					
Fonofos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.030		NT
Sweet Potatoes	701	0			0.030 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,767**	**0**					
Forchlorfenuron (plant growth regulator)							
Cabbage	354	0			0.002 ^		NT
Cranberries	311	0			0.001 ^		0.01
Cranberries, Frozen	428	0			0.001 ^		0.01
Cucumbers	378	0			0.002 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.002 ^		NT
Pineapple, Canned	397	0			0.002 ^		NT
TOTAL	**3,418**	**0**					
Formetanate hydrochloride (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		1.5
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,652**	**0**					
Fosthiazate (nematicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Furalaxyl (fungicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 - 0.010		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Furathiocarb (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**1,477**	**0**					
Halosulfuron (herbicide)							
Cranberries	311	0			0.010 ^		0.05
Cranberries, Frozen	428	0			0.010 ^		0.05
Grapefruit	255	0			0.005 ^		NT
Mangoes	87	0			0.010 ^		NT
Pineapple, Canned	359	0			0.050 ^		NT
Sweet Potatoes	701	0			0.055 ^		0.05
TOTAL	**2,141**	**0**					
Halosulfuron methyl [2] (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		0.5
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	691	0			0.001 - 0.020		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,529**	**0**					
Haloxyfop (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		NT
TOTAL	**901**	**0**					
Heptenophos (insecticide, acaricide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**1,115**	**0**					
Hexaconazole (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,592**	**0**					
Hexazinone (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Pineapple, Canned	359	0			0.005 ^		0.6
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**2,175**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Hexythiazox (insecticide, acaricide)							
Applesauce	570	0			0.002 ^		0.4
Asparagus	354	0			0.002 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		0.3
Grapefruit	526	0			0.001 - 0.30		0.6
Lettuce	378	0			0.002 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	9	4.7	0.002 - 0.035	0.002 ^		1.3
Sweet Potatoes	701	0			0.015 ^		NT
TOTAL	**5,589**	**9**					
Hydroprene (insect growth regulator)							
Cranberries	311	0			0.005 ^		0.2
Cranberries, Frozen	428	0			0.005 ^		0.2
Garbanzo Beans, Canned	189	0			0.002 ^		0.2
Grapefruit	526	0			0.010 - 0.020		0.2
Kale	708	0			0.015 ^		0.2
Mangoes	177	0			0.003 - 0.020		0.2
Olives, Canned	754	0			0.003 - 0.020		0.2
Onions	360	0			0.002 ^		0.2
Pineapple, Canned	359	0			0.015 ^		0.2
Snap Peas	710	0			0.015 ^		0.2
Sweet Potatoes	701	0			0.015 ^		0.2
Tomatoes, Canned	566	0			0.002 ^		0.2
TOTAL	**5,789**	**0**					
3-Hydroxycarbofuran (metabolite of Carbofuran)							
Applesauce	570	0			0.003 ^		NT
Asparagus	354	2	0.6	0.003 - 0.035	0.003 ^	V-2	NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.004 ^		NT
Cranberries, Frozen	428	0			0.004 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.004		NT
Kale	708	0			0.050 ^		NT
Lettuce	378	0			0.003 ^		NT
Mangoes	177	0			0.001 - 0.004		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.004 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.003 ^		NT
Snap Peas	710	0			0.050 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 - 0.004		NT
TOTAL	**8,759**	**2**					
5-Hydroxythiabendazole (metabolite of Thiabendazole)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	2	0.7	0.002 - 0.005	0.001 ^		10.0
Mangoes	90	15	16.7	0.001 - 0.003	0.001 ^		10.0
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**17**					
Imazalil (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	309	0			0.005 ^		NT
Cranberries, Frozen	409	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	450	85.6	0.001 - 0.21	0.001 - 0.003		10.0
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,320**	**450**					
Imazapic (herbicide)							
Grapefruit	121	0			0.005 ^		NT
Olives, Canned	630	0			0.005 ^		NT
TOTAL	**751**	**0**					
Imazapyr (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		NT
TOTAL	**901**	**0**					
Imazaquin (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Olives, Canned	630	0			0.010 ^		NT
TOTAL	**901**	**0**					
Imazethapyr (herbicide)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 - 20		NT
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Snap Peas	710	0			0.050 ^		0.1
TOTAL	**2,726**	**0**					
Imazosulfuron (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Sweet Potatoes	701	0			0.025 ^		0.02
TOTAL	**1,816**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Imidacloprid (insecticide)							
Applesauce	570	47	8.2	0.003 - 0.025	0.003 ^		0.5
Asparagus	354	8	2.3	0.004 - 0.092	0.003 ^	V-8	NT
Cabbage	354	28	7.9	0.010 - 0.063	0.010 ^		3.5
Cranberries	311	0			0.005 ^		0.05
Cranberries, Frozen	428	0			0.005 ^		0.05
Cucumbers	378	6	1.6	0.011 - 0.067	0.010 ^		0.5
Garbanzo Beans, Canned	189	0			0.001 ^		4.0
Grapefruit	526	87	16.5	0.003 - 0.020	0.003 - 0.005		0.70
Lettuce	378	153	40.5	0.003 - 0.087	0.003 ^		3.5
Mangoes	177	25	14.1	0.003 - 0.032	0.003 - 0.005		1.0
Olives, Canned	754	0			0.003 ^		NT
Onions	708	48	6.8	0.002 - 0.016	0.001 - 0.010		0.15
Pineapple, Canned	756	0			0.010 - 0.020		NT
Plums, Dried / Prunes	191	5	2.6	0.003 - 0.018	0.003 ^		3.0
Snap Peas	710	3	0.4	0.067 - 0.17	0.040 ^		4.0
Sweet Potatoes	701	0			0.020 ^		0.40
Tomatoes, Canned	566	169	29.9	0.002 - 0.018	0.001 ^		1.0
TOTAL	**8,051**	**579**					
Imidacloprid urea (metabolite of Imidacloprid)							
Pineapple, Canned	359	0			0.015 ^		NT
Sweet Potatoes	701	0			0.015 ^		0.40
TOTAL	**1,060**	**0**					
Imiprothrin (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	526	0			0.010 - 0.040		NT
Kale	708	0			0.007 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.010 - 0.050		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.095		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Snap Peas	710	0			0.007 ^		NT
Sweet Potatoes	701	0			0.095 ^		NT
TOTAL	**7,644**	**0**					
Indaziflam (herbicide)							
Applesauce	570	0			0.001 ^		0.01
Asparagus	354	0			0.001 ^		NT
Cranberries	311	0			0.001 ^		0.01
Cranberries, Frozen	428	0			0.001 ^		0.01
Grapefruit	526	0			0.001 ^		0.01
Lettuce	378	0			0.001 ^		NT
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		0.01

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Plums, Dried / Prunes	191	0			0.001 ^		0.01
TOTAL	**3,689**	**0**					
Indoxacarb (insecticide)							
Applesauce	570	0			0.020 ^		1.0
Asparagus	354	0			0.020 ^		NT
Cabbage	354	5	1.4	0.010 - 0.28	0.010 ^		12
Cranberries	311	0			0.050 ^		1.5
Cranberries, Frozen	428	0			0.050 ^		1.5
Cucumbers	378	0			0.010 ^		0.60
Grapefruit	496	0			0.005 - 0.010		NT
Kale	708	70	9.9	0.005 - 2.5	0.003 ^		12
Lettuce	378	0			0.020 ^		14
Mangoes	177	0			0.005 - 0.050		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.025		NT
Plums, Dried / Prunes	191	0			0.020 ^		0.90
Sweet Potatoes	701	0			0.025 ^		0.01
TOTAL	**6,904**	**75**					
Ipconazole (fungicide)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	408	0			0.003 - 0.020		NT
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Snap Peas	710	0			0.005 ^		0.01
TOTAL	**2,788**	**0**					
Iprobenfos - IBP (fungicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Iprodione (fungicide)							
Applesauce	570	0			0.040 ^		NT
Asparagus	354	0			0.040 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.075 ^		NT
Cranberries, Frozen	428	0			0.075 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.009 ^		NT
Grapefruit	526	0			0.010 - 0.15		NT
Lettuce	378	0			0.040 ^		25.0
Mangoes	177	0			0.005 - 0.075		NT
Olives, Canned	754	0			0.005 - 0.010		NT
Onions	708	1	0.1	0.010 ^	0.005 - 0.009		0.5
Pineapple, Canned	756	0			0.005 - 0.025		NT
Plums, Dried / Prunes	191	0			0.040 ^		20.0
Sweet Potatoes	701	0			0.025 ^		NT
Tomatoes, Canned	545	0			0.009 ^		NT
TOTAL	**7,320**	**1**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Iprovalicarb (fungicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**2,175**	**0**					
Isocarbophos (insecticide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
TOTAL	**1,115**	**0**					
Isofenphos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,469**	**0**					
Isofenphos methyl (metabolite if Isofenphos)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**1,115**	**0**					
Isofetamid (fungicide)							
Cranberries	311	0			0.001 ^		5.0
Cranberries, Frozen	428	0			0.001 ^		5.0
Mangoes	87	0			0.001 ^		NT
TOTAL	**826**	**0**					
Isoprocarb (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Isoprothiolane (fungicide)							
Cabbage	354	0			0.005 ^		NT
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**445**	**0**					
Isoproturon (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Isoxadifen ethyl (herbicide safener)							
Cranberries	311	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**2,196**	**0**					
Kresoxim-methyl (fungicide)							
Applesauce	570	0			0.010 ^		0.5
Asparagus	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	360	0			0.002 ^		NT
Pineapple, Canned	359	0			0.015 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**5,864**	**0**					
Lactofen (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Snap Peas	710	0			0.004 ^		NT
TOTAL	**1,825**	**0**					
Lenacil (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	60	0			0.003 ^		NT
Olives, Canned	661	0			0.003 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**2,469**	**0**					
Leptophos oxygen analog (insecticide metabolite)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Linuron (herbicide)							
Asparagus	354	6	1.7	0.008 - 0.066	0.008 ^		7
Cabbage	354	0			0.019 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.019 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.003 - 0.016		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.002 - 0.019		NT
Pineapple, Canned	756	0			0.010 - 0.019		NT
Plums, Dried / Prunes	191	0			0.008 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**6,393**	**6**					
Lufenuron (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Olives, Canned	630	0			0.005 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**1,961**	**0**					
Malathion (insecticide)							
Applesauce	570	0			0.002 ^		8
Asparagus	354	0			0.002 ^		8
Cabbage	354	0			0.010 ^		8
Cranberries	311	0			0.010 ^		8
Cranberries, Frozen	428	0			0.010 ^		8
Cucumbers	378	0			0.010 ^		8
Garbanzo Beans, Canned	189	0			0.001 ^		8
Grapefruit	526	0			0.003 - 0.005		8
Kale	708	8	1.1	0.008 - 1.0	0.005 ^		8
Lettuce	378	1	0.3	0.035 ^	0.002 ^		8
Mangoes	177	7	4	0.003 - 0.013	0.003 - 0.010		8
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.003 - 0.010		8
Pineapple, Canned	756	0			0.005 - 0.010		8
Plums, Dried / Prunes	191	0			0.002 ^		8
Sweet Potatoes	701	0			0.005 ^		1
Tomatoes, Canned	566	0			0.001 ^		8
TOTAL	**8,049**	**16**					
Malathion oxygen analog (metabolite of Malathion)							
Applesauce	570	0			0.002 ^		8
Asparagus	354	0			0.002 ^		8
Cabbage	354	0			0.010 ^		8
Cranberries	311	0			0.002 ^		8
Cranberries, Frozen	428	0			0.002 ^		8
Cucumbers	378	0			0.010 ^		8
Garbanzo Beans, Canned	189	0			0.002 ^		8
Grapefruit	526	0			0.001 ^		8
Kale	708	0			0.015 ^		8
Lettuce	378	0			0.002 ^		8
Mangoes	177	0			0.001 - 0.002		8
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.010		8
Pineapple, Canned	756	0			0.005 - 0.010		8
Plums, Dried / Prunes	191	0			0.002 ^		8
Sweet Potatoes	701	0			0.005 ^		1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Tomatoes, Canned	566	0			0.002 ^		8
TOTAL	**8,049**	**0**					
Mandipropamid (fungicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cabbage	354	2	0.6	0.006 - 0.015	0.005 ^		3
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	2	0.5	0.005 - 0.009	0.005 ^		0.6
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	526	0			0.001 - 0.003		NT
Kale	708	130	18.4	0.008 - 11.5	0.005 ^		25
Lettuce	378	49	13	0.002 - 3.1	0.002 ^		20
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.003 - 0.010		0.05
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.020 ^		0.09
Tomatoes, Canned	566	3	0.5	0.005 ^	0.003 ^		1.0
TOTAL	**8,049**	**186**					
Mecarbam (insecticide, acaricide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
TOTAL	**1,115**	**0**					
Mecoprop - MCPP (herbicide)							
Grapefruit	271	0			0.25 ^		NT
Olives, Canned	630	0			0.25 ^		NT
TOTAL	**901**	**0**					
Mefenacet (herbicide)							
Cabbage	354	0			0.005 ^		NT
TOTAL	**354**	**0**					
Mefenpyr diethyl (herbicide safener)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Mepanipyrim (fungicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
Mephosfolan (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	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	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**91**	**0**					
Mesotrione (herbicide)							
Cranberries	311	0			0.050 ^		0.02
Cranberries, Frozen	428	0			0.050 ^		0.02
Grapefruit	255	0			0.010 ^		0.01
TOTAL	**994**	**0**					
Metaflumizone (insecticide)							
Cranberries	278	0			0.002 ^		NT
Cranberries, Frozen	373	0			0.002 ^		NT
Grapefruit	526	0			0.001 - 0.010		0.04
Mangoes	119	0			0.002 - 0.010		NT
Olives, Canned	754	0			0.010 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 - 0.010		NT
TOTAL	**3,110**	**0**					
Metalaxyl/Mefenoxam [3] (fungicide)							
Applesauce	570	0			0.001 ^		0.2
Asparagus	354	0			0.001 ^		7
Cabbage	354	0			0.005 ^		1
Cranberries	311	0			0.010 ^		4.0
Cranberries, Frozen	428	0			0.010 ^		4.0
Cucumbers	378	98	25.9	0.005 - 0.32	0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.001 ^		0.2
Grapefruit	526	0			0.001 - 0.005		1.0
Kale	708	47	6.6	0.007 - 2.6	0.004 ^	X-4	0.1
Lettuce	378	28	7.4	0.001 - 0.009	0.001 ^		5.0
Mangoes	177	0			0.001 - 0.010		0.40
Olives, Canned	754	0			0.001 ^		NT
Onions	708	17	2.4	0.002 - 0.031	0.001 - 0.005		3.0
Pineapple, Canned	756	0			0.005 - 0.030		0.1
Plums, Dried / Prunes	191	0			0.001 ^		4.0
Snap Peas	710	4	0.6	0.007 - 0.029	0.004 ^		0.2
Sweet Potatoes	701	0			0.030 ^		0.5
Tomatoes, Canned	566	4	0.7	0.002 - 0.006	0.001 ^		1.0
TOTAL	**8,759**	**198**					
Metaldehyde (molluscicide)							
Grapefruit	271	0			0.10 ^		0.26
Kale	708	0			0.040 ^		2.5
Mangoes	60	0			0.10 ^		NT
Olives, Canned	661	0			0.10 ^		NT
Pineapple, Canned	359	0			0.11 ^		NT
Snap Peas	710	0			0.040 ^		0.80
Sweet Potatoes	701	0			0.11 ^		NT
TOTAL	**3,470**	**0**					
Metconazole (fungicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	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	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		0.04
TOTAL	**2,175**	**0**					
Methacrifos (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Methamidophos (insecticide) (also a metabolite of Acephate)							
Applesauce	570	0			0.005 ^		0.02
Asparagus	354	7	2	0.022 - 0.83	0.005 ^	X-4	0.02
Cabbage	354	1	0.3	0.017 ^	0.010 ^		0.02
Cranberries	311	0			0.020 ^		0.5
Cranberries, Frozen	428	0			0.020 ^		0.5
Cucumbers	378	1	0.3	0.11 ^	0.010 ^	X-1	0.02
Garbanzo Beans, Canned	189	0			0.004 ^		0.02
Grapefruit	526	0			0.001 - 0.020		0.02
Kale	708	0			0.050 ^		0.02
Lettuce	378	2	0.5	0.005 - 0.006	0.005 ^		10/0.02 &
Mangoes	177	0			0.001 - 0.020		0.02
Olives, Canned	754	0			0.001 ^		0.02
Onions	708	0			0.001 - 0.010		0.02
Pineapple, Canned	756	0			0.010 - 0.035		0.02
Plums, Dried / Prunes	191	0			0.005 ^		0.02
Snap Peas	710	0			0.050 ^		0.02
Sweet Potatoes	701	0			0.035 ^		0.02
Tomatoes, Canned	566	0			0.004 ^		0.02
TOTAL	**8,759**	**11**					
Methidathion (insecticide)							
Applesauce	570	0			0.010 ^		0.05
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.003		4.0
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.002 - 0.003		0.05
Olives, Canned	754	0			0.003 ^		0.05
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	0			0.010 ^		0.05
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.001 - 0.003		NT
TOTAL	**7,341**	**0**					
Methiocarb (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	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	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	603	0			0.001 - 0.010		NT
Pineapple, Canned	397	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 - 0.003		NT
TOTAL	**3,602**	**0**					
Methiocarb sulfone (metabolite of Methiocarb)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Methiocarb sulfoxide (metabolite of Methiocarb)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Methomyl (insecticide)							
Applesauce	570	0			0.030 ^		1
Asparagus	323	2	0.6	0.035 - 0.43	0.030 ^		2
Cabbage	354	4	1.1	0.010 - 0.029	0.010 ^		5
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	2	0.5	0.14 - 0.68	0.010 ^	X-1	0.2
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.001 - 0.010		2
Kale	708	5	0.7	0.042 - 1.6	0.025 ^		6
Lettuce	378	5	1.3	0.036 - 0.13	0.030 ^		5
Mangoes	177	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	708	2	0.3	0.004 - 0.014	0.002 - 0.010	V-2	NT
Pineapple, Canned	756	0			0.010 - 0.015		NT
Plums, Dried / Prunes	191	0			0.030 ^		NT
Sweet Potatoes	701	0			0.015 ^		0.2
Tomatoes, Canned	566	0			0.002 ^		1
TOTAL	**8,018**	**20**					
Methomyl oxime (metabolite of Methomyl)							
Grapefruit	255	0			0.050 ^		2
TOTAL	**255**	**0**					
Methoprene (insect growth regulator)							
Garbanzo Beans, Canned	189	0			0.015 ^		EX
Grapefruit	255	0			0.050 ^		EX
Onions	360	0			0.015 ^		EX
Pineapple, Canned	359	0			0.030 ^		EX
Sweet Potatoes	701	0			0.030 ^		EX
Tomatoes, Canned	566	0			0.015 ^		EX
TOTAL	**2,430**	**0**					
Methoxychlor Total (insecticide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	330	0			0.001 - 0.006		NT
Pineapple, Canned	329	0			0.040 ^		NT
Sweet Potatoes	701	0			0.040 ^		NT
Tomatoes, Canned	545	0			0.001 - 0.003		NT
TOTAL	**1,905**	**0**					
Methoxychlor olefin (metabolite of Methoxychlor)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Methoxychlor p,p' (isomer of Methoxychlor)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	312	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**2,526**	**0**					
Methoxyfenozide (insecticide)							
Applesauce	570	16	2.8	0.004 - 0.010	0.003 ^		2.0
Asparagus	354	0			0.003 ^		NT
Cabbage	354	0			0.010 ^		7.0
Cranberries	311	9	2.9	0.002 - 0.006	0.002 ^		3.0
Cranberries, Frozen	428	88	20.6	0.002 - 0.016	0.002 ^		3.0
Cucumbers	378	2	0.5	0.016 - 0.038	0.010 ^		0.3
Garbanzo Beans, Canned	189	0			0.001 ^		0.2
Grapefruit	526	0			0.002 - 0.003		3.0
Kale	708	80	11.3	0.017 - 12.9	0.010 ^		30
Lettuce	378	6	1.6	0.003 - 0.36	0.003 ^		30
Mangoes	177	0			0.002 - 0.003		0.6
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.010		0.10
Pineapple, Canned	756	0			0.010 ^		0.70
Plums, Dried / Prunes	191	27	14.1	0.003 - 0.088	0.003 ^		0.30
Snap Peas	710	5	0.7	0.017 - 0.10	0.010 ^		1.5
Sweet Potatoes	701	0			0.010 ^		0.02
Tomatoes, Canned	566	18	3.2	0.002 - 0.008	0.001 ^		2.0
TOTAL	**8,759**	**251**					
Metolachlor (herbicide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		0.1
Cabbage	354	0			0.005 ^		0.6
Cranberries	311	0			0.005 ^		0.15
Cranberries, Frozen	428	0			0.005 ^		0.15
Cucumbers	378	0			0.005 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		0.30
Grapefruit	526	0			0.003 - 0.010		NT
Kale	708	0			0.002 ^		1.8
Lettuce	378	0			0.001 ^		1.5

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		0.10
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
Snap Peas	710	0			0.002 ^		0.30
Sweet Potatoes	701	0			0.010 ^		0.20
Tomatoes, Canned	566	3	0.5	0.002 ^	0.001 ^		0.10
TOTAL	**8,759**	**3**					
Metolcarb (insecticide, acaricide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
TOTAL	**1,115**	**0**					
Metrafenone (fungicide)							
Cabbage	354	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,214**	**0**					
Metribuzin (herbicide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	14	4	0.005 - 0.10	0.005 ^		0.1
Cranberries	278	0			0.005 ^		NT
Cranberries, Frozen	426	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.005 ^		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	360	0			0.002 ^		NT
Pineapple, Canned	359	0			0.020 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	4	0.7	0.003 ^	0.002 ^		0.1
TOTAL	**5,829**	**18**					
Metsulfuron methyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Mevinphos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.002 - 0.003		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**5,848**	**0**					
MGK-264 (insecticide)							
Applesauce	570	0			0.10 ^		5
Asparagus	354	0			0.10 ^		5
Cranberries	311	0			0.025 ^		5
Cranberries, Frozen	428	0			0.025 ^		5
Garbanzo Beans, Canned	189	3	1.6	0.003 ^	0.002 ^		5
Grapefruit	526	0			0.005 ^		5
Kale	708	0			0.001 ^		5
Lettuce	378	0			0.10 ^		5
Mangoes	177	0			0.001 - 0.025		5
Olives, Canned	754	0			0.001 - 0.005		5
Onions	360	0			0.002 ^		5
Pineapple, Canned	359	0			0.030 ^		5
Plums, Dried / Prunes	191	0			0.10 ^		5
Snap Peas	710	0			0.001 ^		5
Sweet Potatoes	701	0			0.030 ^		5
Tomatoes, Canned	566	0			0.002 ^		5
TOTAL	**7,282**	**3**					
Molinate (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Monocrotophos (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.020		NT
Sweet Potatoes	701	0			0.020 ^		NT
TOTAL	**3,652**	**0**					
Monolinuron (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Myclobutanil (fungicide)							
Applesauce	570	2	0.4	0.003 - 0.005	0.003 ^		0.5
Asparagus	354	0			0.003 ^		0.02
Cabbage	354	0			0.005 ^		0.03

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	15	4	0.006 - 0.077	0.005 ^		0.20
Garbanzo Beans, Canned	189	0			0.001 ^		0.03
Grapefruit	526	0			0.003 - 0.010		NT
Lettuce	378	0			0.003 ^		9.0
Mangoes	177	0			0.003 - 0.010		3.0
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.003 ^		8.0
Snap Peas	710	1	0.1	0.008 ^	0.005 ^		0.03
Sweet Potatoes	701	0			0.001 ^		0.03
Tomatoes, Canned	566	3	0.5	0.005 - 0.008	0.003 ^		0.30
TOTAL	**8,051**	**21**					
Naled (insecticide)							
Applesauce	570	0			0.020 ^		0.5
Kale	708	0			0.025 ^		3
Lettuce	378	0			0.020 ^		0.5
Plums, Dried / Prunes	191	0			0.020 ^		0.5
Snap Peas	710	0			0.025 ^		0.5
TOTAL	**2,557**	**0**					
1-Naphthol (metabolite of Carbaryl)							
Applesauce	570	4	0.7	0.016 - 0.074	0.015 ^		12
Asparagus	298	0			0.015 ^		15
Cranberries	311	9	2.9	0.010 - 0.10	0.010 ^		3.0
Cranberries, Frozen	426	2	0.5	0.033 - 0.11	0.010 ^		3.0
Grapefruit	255	0			0.010 ^		10
Kale	708	3	0.4	0.042 - 0.15	0.025 ^		10
Lettuce	378	0			0.015 ^		10
Mangoes	87	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.015 ^		10
Snap Peas	710	0			0.025 ^		10
TOTAL	**3,934**	**18**					
Napropamide (herbicide)							
Cabbage	354	0			0.010 ^		0.1
Cranberries	311	0			0.001 ^		0.1
Cranberries, Frozen	428	0			0.001 ^		0.1
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.005 ^		NT
Kale	708	0			0.003 ^		0.1
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	722	0			0.003 - 0.005		NT
Onions	708	0			0.002 - 0.010		NT
Pineapple, Canned	756	0			0.010 - 0.020		NT
Sweet Potatoes	701	0			0.020 ^		0.1
Tomatoes, Canned	566	0			0.002 ^		0.1
TOTAL	**6,269**	**0**					
Nicosulfuron (herbicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**2,109**	**0**					
Nitrapyrin (nitrification inhibitor)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Mangoes	177	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		NT
TOTAL	**2,196**	**0**					
Nitrofen (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		NT
TOTAL	**1,115**	**0**					
Norflurazon (herbicide)							
Applesauce	570	0			0.002 ^		0.1
Asparagus	354	0			0.001 - 0.002		0.05
Cabbage	354	0			0.010 ^		NT
Cranberries	208	0			0.010 ^		0.1
Cranberries, Frozen	418	0			0.010 ^		0.1
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.005		0.2
Lettuce	378	0			0.002 ^		NT
Mangoes	148	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.002 ^		0.1
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,199**	**0**					
Norflurazon desmethyl (metabolite of Norflurazon)							
Applesauce	570	0			0.005 ^		0.1
Asparagus	354	0			0.005 ^		0.05
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		0.1
Cranberries, Frozen	428	1	0.2	0.007 ^	0.005 ^		0.1
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.003		0.2
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.010		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		0.1
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**1**					
Novaluron (insecticide)							
Asparagus	354	0			0.008 - 0.009		0.01
Cabbage	354	0			0.010 ^		0.50
Cranberries	311	0			0.005 ^		7.0
Cranberries, Frozen	428	9	2.1	0.012 - 0.032	0.005 ^		7.0
Cucumbers	378	0			0.010 ^		0.20
Garbanzo Beans, Canned	189	0			0.001 - 0.003		0.01
Grapefruit	526	0			0.020 - 0.050		0.01
Kale	708	1	0.1	0.48 ^	0.010 ^		25
Mangoes	177	0			0.001 - 0.005		0.01
Olives, Canned	691	0			0.001 - 0.020		0.01
Onions	708	0			0.001 - 0.010		0.01
Pineapple, Canned	756	0			0.010 ^		0.01
Plums, Dried / Prunes	191	0			0.009 ^		3.0
Snap Peas	710	0			0.010 ^		0.01
Sweet Potatoes	701	0			0.010 ^		0.05
Tomatoes, Canned	566	0			0.001 - 0.003		1.0
TOTAL	**7,748**	**10**					
Omethoate (insecticide) (also a metabolite of Dimethoate)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	2	0.6	0.025 - 0.28	0.020 ^	X-1	0.15
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.015 ^		NT
Cranberries, Frozen	428	0			0.015 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.001 - 0.006		2.0
Kale	708	3	0.4	0.083 - 0.48	0.050 ^		2.0
Lettuce	378	0			0.020 ^		2.0
Mangoes	177	0			0.001 - 0.015		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.010		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Snap Peas	710	21	3	0.083 - 0.19	0.050 ^		2.0
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.008 ^		2.0
TOTAL	**8,759**	**26**					
Oryzalin (herbicide)							
Applesauce	570	0			0.020 ^		0.05
Asparagus	354	0			0.020 ^		NT
Cabbage	335	0			0.020 - 0.050		NT
Cranberries	311	0			0.20 ^		0.05
Cranberries, Frozen	428	0			0.20 ^		0.05
Cucumbers	378	0			0.020 - 0.050		NT
Grapefruit	526	0			0.020 - 0.10		0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Lettuce	378	1	0.3	0.021 ^	0.020 ^	V-1	NT
Mangoes	87	0			0.20 ^		NT
Olives, Canned	630	0			0.020 ^		0.05
Onions	348	0			0.020 ^		NT
Pineapple, Canned	756	0			0.020 - 0.20		NT
Plums, Dried / Prunes	191	0			0.020 ^		0.05
Sweet Potatoes	701	0			0.10 ^		NT
TOTAL	**5,993**	**1**					
Oxadiazon (herbicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	722	0			0.001 - 0.003		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**2,576**	**0**					
Oxadixyl (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	397	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**3,707**	**0**					
Oxamyl (insecticide)							
Applesauce	570	0			0.003 ^		2
Asparagus	354	0			0.003 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	2	0.5	0.011 - 0.077	0.010 ^		2.0
Garbanzo Beans, Canned	189	0			0.006 ^		NT
Grapefruit	526	0			0.002 - 0.005		3
Lettuce	378	0			0.003 ^		NT
Mangoes	177	0			0.002 - 0.005		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.002 - 0.010		0.2
Pineapple, Canned	756	0			0.005 - 0.010		1
Plums, Dried / Prunes	191	0			0.003 ^		NT
Sweet Potatoes	701	0			0.005 ^		0.1
Tomatoes, Canned	566	0			0.002 ^		2
TOTAL	**7,341**	**2**					
Oxamyl oxime (metabolite of Oxamyl)							
Applesauce	570	0			0.006 ^		2
Asparagus	354	0			0.006 ^		NT
Cabbage	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.050 ^		NT
Cranberries, Frozen	428	0			0.050 ^		NT
Cucumbers	378	12	3.2	0.013 - 0.15	0.010 ^		2.0
Grapefruit	526	0			0.005 - 0.050		3
Lettuce	378	0			0.006 ^		NT
Mangoes	177	0			0.005 - 0.050		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	348	0			0.010 ^		0.2
Pineapple, Canned	756	0			0.010 - 0.040		1
Plums, Dried / Prunes	191	0			0.006 - 0.007		NT
Sweet Potatoes	701	0			0.040 ^		0.1
TOTAL	**6,226**	**12**					
Oxydemeton methyl (insecticide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cabbage	354	1	0.3	0.019 ^	0.010 ^		2
Cucumbers	378	0			0.010 ^		1.0
Grapefruit	526	0			0.001 - 0.050		1.0
Lettuce	378	0			0.002 ^		2.0
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		0.05
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**5,400**	**1**					
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cabbage	354	1	0.3	0.031 ^	0.010 ^		2
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		1.0
Grapefruit	526	0			0.001 - 0.002		1.0
Lettuce	378	0			0.002 ^		2.0
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		0.05
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
TOTAL	**5,166**	**1**					
Oxyfluorfen (herbicide)							
Applesauce	570	0			0.050 ^		0.05
Asparagus	354	0			0.050 ^		NT
Cabbage	354	0			0.005 ^		0.05
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.020 ^		NT
Lettuce	378	0			0.050 ^		NT
Mangoes	90	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	708	0			0.001 - 0.005		0.05
Pineapple, Canned	397	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.050 ^		0.05
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**5,200**	**0**					
Paclobutrazol (plant growth regulator)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,652**	**0**					
Parathion (insecticide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.003 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.060		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.060 ^		NT
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**6,260**	**0**					
Parathion methyl (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.020		NT
Olives, Canned	754	0			0.001 - 0.020		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**7,341**	**0**					
Parathion methyl oxygen analog (metabolite of Parathion methyl)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Lettuce	378	0			0.020 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
Onions	360	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,978**	**0**					
Parathion oxygen analog (metabolite of Parathion)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Pebulate (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**1,477**	**0**					
Penconazole (fungicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,652**	**0**					
Pencycuron (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,652**	**0**					
Pendimethalin (herbicide)							
Applesauce	570	0			0.050 ^		0.1
Asparagus	354	0			0.050 ^		0.15
Cabbage	354	0			0.005 ^		0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.005 ^		0.1
Cranberries, Frozen	428	0			0.005 ^		0.1
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.010 - 0.045		0.1
Kale	708	62	8.8	0.005 - 0.059	0.003 ^		0.20
Lettuce	378	0			0.050 ^		4.0
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		0.1
Onions	708	0			0.001 - 0.005		0.1
Pineapple, Canned	756	0			0.005 - 0.035		NT
Plums, Dried / Prunes	191	0			0.050 ^		0.10
Sweet Potatoes	701	0			0.035 ^		NT
Tomatoes, Canned	566	7	1.2	0.002 ^	0.001 ^		0.10
TOTAL	**8,049**	**69**					
Penflufen (fungicide)							
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Snap Peas	710	0			0.002 ^		0.01
TOTAL	**2,906**	**0**					
Penoxsulam (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		0.01
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,592**	**0**					
Pentachloroaniline - PCA (metabolite of Quintozene)							
Applesauce	570	0			0.004 ^		NT
Asparagus	354	0			0.004 ^		NT
Cabbage	354	0			0.005 ^		0.1
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.060		NT
Kale	708	5	0.7	0.003 ^	0.002 ^		0.2
Lettuce	378	0			0.004 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.004 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**8,049**	**5**					
Pentachlorobenzene - PCB (metabolite of Quintozene)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		0.1
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.010 ^		NT
Grapefruit	526	0			0.005 - 0.015		NT
Kale	708	0			0.001 ^		0.2
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	756	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Sweet Potatoes	701	0			0.001 ^		NT
Tomatoes, Canned	545	0			0.010 ^		0.1
TOTAL	**8,028**	**0**					
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)							
Cabbage	354	0			0.005 ^		0.1
Cranberries	311	0			0.015 ^		NT
Cranberries, Frozen	428	0			0.015 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.020 - 0.025		NT
Kale	708	0			0.002 ^		0.2
Mangoes	177	0			0.003 - 0.020		NT
Olives, Canned	754	0			0.003 - 0.020		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	726	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**5,600**	**0**					
Penthiopyrad (fungicide)							
Cabbage	354	1	0.3	0.052 ^	0.010 ^		5.0
Cranberries	311	0			0.001 ^		3.0
Cranberries, Frozen	428	0			0.001 ^		3.0
Cucumbers	378	2	0.5	0.015 - 0.017	0.010 ^		0.60
Garbanzo Beans, Canned	189	0			0.001 ^		0.40
Grapefruit	526	0			0.001 ^		NT
Kale	708	55	7.8	0.003 - 12	0.002 ^		50
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	11	1.6	0.002 ^	0.001 - 0.010		3.0
Pineapple, Canned	397	0			0.010 ^		NT
Snap Peas	710	22	3.1	0.003 - 0.36	0.002 ^		4.0
Tomatoes, Canned	566	16	2.8	0.002 - 0.018	0.001 ^		3.0
TOTAL	**6,206**	**107**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Permethrin Total (insecticide)							
Cabbage	354	2	0.6	0.019 - 0.076	0.005 ^		6
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	1	0.3	0.010 ^	0.005 ^		1.5
Grapefruit	255	0			0.010 ^		NT
Kale	708	54	7.6	0.005 - 4.9	0.003 ^		5.0
Mangoes	87	0			0.005 ^		NT
Onions	348	0			0.005 ^		0.10
Pineapple, Canned	397	0			0.005 ^		NT
Snap Peas	704	10	1.4	0.005 - 0.33	0.003 ^	V-10	NT
TOTAL	**3,970**	**67**					
Permethrin cis (isomer of Permethrin)							
Applesauce	570	0			0.010 ^		0.05
Asparagus	354	1	0.3	0.11 ^	0.010 ^		2
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.010 ^		NT
Lettuce	378	24	6.3	0.011 - 1.2	0.010 ^		20
Mangoes	90	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	360	0			0.001 ^		0.10
Pineapple, Canned	359	0			0.020 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	2	0.3	0.040 - 0.095	0.020 ^	V-2	NT
Tomatoes, Canned	566	8	1.4	0.002 - 0.008	0.001 ^		2.0
TOTAL	**4,783**	**35**					
Permethrin trans (isomer of Permethrin)							
Applesauce	570	0			0.010 ^		0.05
Asparagus	354	1	0.3	0.069 ^	0.010 ^		2
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.010 ^		NT
Lettuce	378	21	5.6	0.010 - 1.5	0.010 ^		20
Mangoes	90	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	360	0			0.001 ^		0.10
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	2	0.3	0.027 - 0.12	0.010 ^	V-2	NT
Tomatoes, Canned	566	7	1.2	0.002 - 0.009	0.001 ^		2.0
TOTAL	**4,783**	**31**					
Phenothrin (insecticide)							
Applesauce	570	0			0.050 ^		0.01
Asparagus	354	0			0.050 ^		0.01
Cabbage	335	0			0.005 ^		0.01
Cranberries	311	1	0.3	0.029 ^	0.025 ^	X-1	0.01
Cranberries, Frozen	428	0			0.025 ^		0.01
Cucumbers	378	0			0.005 ^		0.01
Garbanzo Beans, Canned	189	0			0.002 ^		0.01
Grapefruit	526	0			0.005 ^		0.01
Kale	708	0			0.004 ^		0.01
Lettuce	378	0			0.050 ^		0.01
Mangoes	177	0			0.005 - 0.025		0.01

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	754	0			0.005 ^		0.01
Onions	708	0			0.002 - 0.005		0.01
Pineapple, Canned	756	0			0.005 - 0.15		0.01
Plums, Dried / Prunes	191	0			0.050 ^		0.01
Snap Peas	710	0			0.004 ^		0.01
Sweet Potatoes	701	0			0.15 ^		0.01
Tomatoes, Canned	566	0			0.002 ^		0.01
TOTAL	**8,740**	**1**					
Phenthoate (insecticide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
o-Phenylphenol (fungicide)							
Applesauce	570	0			0.005 ^		25
Asparagus	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	526	2	0.4	0.006 ^	0.005 - 0.010		10
Lettuce	378	0			0.005 ^		NT
Mangoes	87	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		20
Tomatoes, Canned	566	0			0.001 ^		10
TOTAL	**3,411**	**2**					
Phorate (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.030 ^		NT
Cranberries, Frozen	428	0			0.030 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.020 - 0.060		NT
Mangoes	177	0			0.005 - 0.030		NT
Olives, Canned	754	0			0.005 - 0.020		NT
Onions	708	0			0.003 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.17		NT
Sweet Potatoes	701	0			0.17 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**5,848**	**0**					
Phorate oxygen analog (metabolite of Phorate)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.002 - 0.005		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,485**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Phorate oxygen analog sulfone (metabolite of Phorate)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.004		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,445**	**0**					
Phorate oxygen analog sulfoxide (metabolite of Phorate)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.004		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Pineapple, Canned	359	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,445**	**0**					
Phorate sulfone (metabolite of Phorate)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.025 ^		NT
Cranberries, Frozen	428	0			0.025 ^		NT
Cucumbers	292	0			0.020 - 0.050		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.003 - 0.005		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.025		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	679	0			0.002 - 0.050		NT
Pineapple, Canned	756	0			0.020 - 0.050		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.030 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**7,226**	**0**					
Phorate sulfoxide (metabolite of Phorate)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.003 - 0.010		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**0**					
Phosalone (insecticide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.015		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.002 - 0.005		NT
TOTAL	**6,260**	**0**					
Phosmet (insecticide)							
Applesauce	570	0			0.010 ^		10
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		10
Cranberries, Frozen	428	0			0.010 ^		10
Cucumbers	378	0			0.005 ^		NT
Grapefruit	526	0			0.001 - 0.010		5
Kale	708	0			0.010 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.025		NT
Plums, Dried / Prunes	191	0			0.010 ^		5
Snap Peas	710	0			0.010 ^		1
Sweet Potatoes	701	3	0.4	0.061 - 0.15	0.025 ^		12
TOTAL	**7,644**	**3**					
Phosmet oxygen analog (metabolite of Phosmet)							
Applesauce	570	0			0.004 ^		10
Asparagus	354	0			0.004 ^		NT
Cranberries	311	0			0.005 ^		10
Cranberries, Frozen	428	0			0.005 ^		10
Grapefruit	526	0			0.001 ^		5
Kale	708	0			0.003 - 0.010		NT
Lettuce	378	0			0.004 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.004 ^		5

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Snap Peas	710	0			0.003 ^		1
Sweet Potatoes	701	0			0.010 ^		12
TOTAL	**6,167**	**0**					
Phosphamidon (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	397	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,707**	**0**					
Phoxim (insecticide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Pineapple, Canned	359	0			0.025 ^		NT
Sweet Potatoes	701	0			0.025 ^		NT
TOTAL	**2,175**	**0**					
Picoxystrobin (fungicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 ^		NT
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**2,196**	**0**					
Pinoxaden (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.020 ^		NT
Olives, Canned	687	0			0.020 ^		NT
TOTAL	**1,048**	**0**					
Piperonyl butoxide (insecticide)							
Applesauce	570	0			0.005 ^		10
Asparagus	354	0			0.005 ^		10
Cabbage	354	0			0.005 ^		10
Cranberries	278	0			0.025 ^		10
Cranberries, Frozen	426	0			0.025 ^		10
Cucumbers	378	0			0.005 ^		10
Garbanzo Beans, Canned	189	2	1.1	0.003 ^	0.002 ^		10
Grapefruit	526	0			0.010 - 0.025		10
Kale	703	0			0.004 ^		10
Lettuce	378	0			0.005 ^		10
Mangoes	177	0			0.003 - 0.025		10
Olives, Canned	754	0			0.003 - 0.010		10
Onions	708	0			0.002 - 0.005		10
Pineapple, Canned	756	0			0.005 - 0.015		10
Plums, Dried / Prunes	191	13	6.8	0.010 - 0.19	0.005 ^		10

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Snap Peas	710	13	1.8	0.007 - 0.035	0.004 ^		10
Sweet Potatoes	701	55	7.8	0.015 - 0.80	0.015 ^		10
Tomatoes, Canned	566	2	0.4	0.003 ^	0.002 ^		10
TOTAL	**8,719**	**85**					
Pirimicarb (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,767**	**0**					
Pirimicarb desmethyl (metabolite of Pirimicarb)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.001 - 0.010		NT
Sweet Potatoes	701	0			0.001 ^		NT
TOTAL	**3,652**	**0**					
Pirimiphos ethyl (insecticide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Pirimiphos methyl (insecticide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	0			0.001 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.001 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,260**	**0**					
Prallethrin (insecticide)							
Applesauce	570	0			0.010 ^		1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Asparagus	354	0			0.008 ^		1.0
Cranberries	311	0			0.030 ^		1.0
Cranberries, Frozen	428	0			0.030 ^		1.0
Grapefruit	526	0			0.020 - 0.10		1.0
Kale	708	0			0.005 ^		1.0
Lettuce	378	0			0.010 ^		1.0
Mangoes	177	0			0.020 - 0.030		1.0
Olives, Canned	754	0			0.020 ^		1.0
Pineapple, Canned	359	0			0.10 ^		1.0
Plums, Dried / Prunes	191	0			0.008 ^		1.0
Snap Peas	710	0			0.005 ^		1.0
Sweet Potatoes	701	0			0.10 ^		1.0
TOTAL	**6,167**	**0**					
Pretilachlor (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Primisulfuron methyl (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	30	0			0.001 ^		NT
Olives, Canned	691	0			0.001 - 0.005		NT
TOTAL	**992**	**0**					
Prochloraz (fungicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**2,592**	**0**					
Procymidone (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**5,145**	**0**					
Profenofos (insecticide)							
Applesauce	570	0			0.075 ^		NT
Asparagus	354	0			0.075 ^		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		NT
Lettuce	378	0			0.075 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.075 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**0**					
Profluralin (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT
TOTAL	**1,115**	**0**					
Profoxydim (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Promecarb (insecticide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Prometon (herbicide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Prometryn (herbicide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Pronamide (herbicide)							
Applesauce	570	0			0.002 ^		0.1
Asparagus	354	0			0.002 ^		NT
Cabbage	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries	311	0			0.005 ^		0.05
Cranberries, Frozen	428	0			0.005 ^		0.05
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.050		NT
Lettuce	378	10	2.6	0.002 - 0.016	0.002 ^		1.0
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.003		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.015		NT
Plums, Dried / Prunes	191	0			0.002 ^		0.1
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,341**	**10**					
Propachlor (herbicide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Propamocarb (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	255	67.5	0.010 - 0.88	0.010 ^		1.5
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**2,592**	**255**					
Propamocarb hydrochloride [5] (fungicide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Grapefruit	255	0			0.001 ^		NT
Lettuce	378	63	16.7	0.002 - 3.0	0.002 ^		50/90 [&]
Pineapple, Canned	359	0			0.005 ^		NT
Plums, Dried / Prunes	159	0			0.002 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,515**	**63**					
Propanil (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
TOTAL	**1,115**	**0**					
Propaquizafop (herbicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Propargite (insecticide)							
Applesauce	570	0			0.050 ^		NT
Asparagus	354	0			0.050 ^		NT
Cabbage	354	0			0.020 ^		NT
Cranberries	311	0			0.025 ^		NT
Cranberries, Frozen	428	0			0.025 ^		NT
Cucumbers	378	0			0.020 ^		NT
Garbanzo Beans, Canned	189	0			0.006 ^		NT
Grapefruit	526	0			0.001 - 0.010		5.0
Lettuce	378	0			0.050 ^		NT
Mangoes	177	0			0.001 - 0.025		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.020 ^		NT
Pineapple, Canned	756	0			0.020 - 0.040		NT
Plums, Dried / Prunes	191	0			0.050 ^		NT
Sweet Potatoes	701	0			0.040 ^		NT
Tomatoes, Canned	566	0			0.006 ^		NT
TOTAL	**7,341**	**0**					
Propazine (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Propetamphos (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	325	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		NT
Kale	708	0			0.010 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.003 - 0.010		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Snap Peas	710	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**8,730**	**0**					
Propham (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	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	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**1,115**	**0**					
Propiconazole (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	272	0			0.005 ^		1.0
Cranberries, Frozen	423	0			0.005 ^		1.0
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.005 ^		NT
Grapefruit	526	1	0.2	0.007 ^	0.005 ^		8.0
Kale	708	8	1.1	0.008 - 1.3	0.005 ^		20
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.005 - 0.010		0.2
Pineapple, Canned	756	0			0.010 - 0.020		4.5
Plums, Dried / Prunes	191	1	0.5	0.010 ^	0.010 ^		0.60
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.015 ^		3.0
TOTAL	**8,005**	**10**					
Proquinazid (fungicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 - 0.010		NT
TOTAL	**1,115**	**0**					
Prosulfuron (herbicide)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	526	0			0.001 - 0.003		NT
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,196**	**0**					
Prothioconazole (fungicide)							
Cranberries	311	0			0.10 ^		2.0
Cranberries, Frozen	428	0			0.10 ^		2.0
Grapefruit	271	0			0.020 ^		NT
Mangoes	58	0			0.10 ^		NT
TOTAL	**1,068**	**0**					
Prothiofos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
Sweet Potatoes	701	0			0.020 - 0.040		NT
TOTAL	**2,539**	**0**					
Pymetrozine (insecticide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cabbage	354	0			0.010 ^		0.5
Cucumbers	378	3	0.8	0.018 - 0.12	0.010 ^		0.1
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.001 ^		NT
Kale	708	1	0.1	0.083 ^	0.050 ^		0.25
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 - 0.085		NT
Sweet Potatoes	701	0			0.085 ^		0.02
Tomatoes, Canned	566	0			0.002 ^		0.2
TOTAL	**5,115**	**4**					
Pyraclofos (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Pyraclostrobin (fungicide)							
Applesauce	570	0			0.003 ^		1.5
Asparagus	354	0			0.003 ^		NT
Cabbage	354	9	2.5	0.003 - 0.11	0.003 ^		5.0
Cranberries	311	0			0.001 ^		4.0
Cranberries, Frozen	428	0			0.001 ^		4.0
Cucumbers	378	27	7.1	0.003 - 0.082	0.003 ^		0.5
Garbanzo Beans, Canned	189	0			0.001 ^		0.5
Grapefruit	526	5	1	0.001 - 0.002	0.001 ^		2.0
Kale	708	114	16.1	0.003 - 8.8	0.002 ^		16.0
Lettuce	378	7	1.9	0.004 - 0.24	0.003 ^		29.0
Mangoes	177	15	8.5	0.001 - 0.007	0.001 ^		0.6
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.003 ^		0.9
Pineapple, Canned	756	0			0.003 - 0.005		NT
Plums, Dried / Prunes	191	3	1.6	0.004 - 0.028	0.003 ^		2.5
Snap Peas	710	47	6.6	0.003 - 0.19	0.002 ^		0.5
Sweet Potatoes	701	0			0.005 ^		0.04
Tomatoes, Canned	566	1	0.2	0.002 ^	0.001 ^		1.4
TOTAL	**8,759**	**228**					
Pyraflufen (precursor to Pyraflufen ethyl)							
Grapefruit	271	0			0.020 ^		NT
Olives, Canned	630	0			0.020 ^		0.01
TOTAL	**901**	**0**					
Pyraflufen ethyl (herbicide)							
Applesauce	570	0			0.010 ^		0.01
Asparagus	270	0			0.020 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		0.01
Plums, Dried / Prunes	191	0			0.010 - 0.020		0.01
TOTAL	**2,524**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Pyrasulfotole (herbicide)							
Grapefruit	211	0			0.005 ^		NT
Olives, Canned	534	0			0.005 ^		NT
TOTAL	**745**	**0**					
Pyrazon (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Pyrazophos (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,652**	**0**					
Pyrethrins (insecticide)							
Pineapple, Canned	359	0			0.20 ^		1.0
Sweet Potatoes	701	0			0.20 ^		1.0
TOTAL	**1,060**	**0**					
Pyridaben (insecticide, acaricide)							
Applesauce	570	2	0.4	0.021 - 0.022	0.005 ^		0.75
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		0.5
Cranberries, Frozen	428	0			0.005 ^		0.5
Cucumbers	378	0			0.005 ^		NT
Grapefruit	526	0			0.001 - 0.005		0.9
Lettuce	378	0			0.005 ^		NT
Mangoes	177	1	0.6	0.002 ^	0.001 - 0.005		0.10
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.001 - 0.005		NT
Plums, Dried / Prunes	191	0			0.005 ^		3.0
Sweet Potatoes	701	0			0.001 - 0.002		NT
TOTAL	**6,226**	**3**					
Pyridalyl (insecticide)							
Grapefruit	271	0			0.040 ^		NT
Mangoes	90	0			0.003 - 0.040		NT
Olives, Canned	754	0			0.003 - 0.040		NT
Pineapple, Canned	329	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**2,145**	**0**					
Pyridaphenthion (insecticide)							
Mangoes	30	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	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Pyrimethanil (fungicide)							
Applesauce	570	139	24.4	0.056 - 2.7	0.050 ^		15
Asparagus	354	0			0.050 ^		NT
Cabbage	354	0			0.003 ^		NT
Cranberries	311	0			0.005 ^		8.0
Cranberries, Frozen	428	0			0.005 ^		8.0
Cucumbers	378	10	2.6	0.003 - 0.11	0.003 ^		1.5
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	2	0.4	0.005 - 0.006	0.005 ^		10
Lettuce	378	0			0.050 ^		NT
Mangoes	177	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.001 - 0.003		0.2
Pineapple, Canned	756	0			0.003 - 0.005		NT
Plums, Dried / Prunes	191	0			0.050 ^		10
Sweet Potatoes	701	0			0.005 ^		0.05
Tomatoes, Canned	566	0			0.001 ^		0.50
TOTAL	**7,341**	**151**					
Pyriproxyfen (insecticide, growth regulator)							
Applesauce	570	0			0.001 ^		0.20
Asparagus	354	0			0.001 ^		2
Cabbage	354	0			0.005 ^		0.70
Cranberries	311	0			0.001 ^		1.0
Cranberries, Frozen	428	0			0.001 ^		1.0
Cucumbers	378	0			0.005 ^		0.10
Garbanzo Beans, Canned	189	0			0.002 ^		0.20
Grapefruit	526	0			0.001 - 0.005		0.50
Kale	708	2	0.3	0.002 - 0.042	0.001 ^		2.0
Lettuce	378	0			0.001 ^		3.0
Mangoes	177	0			0.001 ^		1.0
Olives, Canned	754	5	0.7	0.001 - 0.002	0.001 ^		1.0
Onions	708	0			0.002 - 0.005		0.70
Pineapple, Canned	756	0			0.005 ^		0.30
Plums, Dried / Prunes	191	4	2.1	0.002 - 0.005	0.001 ^		1.0
Snap Peas	710	2	0.3	0.019 - 0.036	0.001 ^		0.20
Sweet Potatoes	701	0			0.005 ^		0.15
Tomatoes, Canned	566	0			0.002 ^		0.80
TOTAL	**8,759**	**13**					
Pyroxasulfone (herbicide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.001 - 0.003		NT
TOTAL	**1,115**	**0**					
Quinalphos (insecticide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	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	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,652**	**0**					
Quinoxyfen (fungicide)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 ^		NT
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.001 ^		1.0
Cranberries, Frozen	428	0			0.001 ^		1.0
Cucumbers	378	1	0.3	0.016 ^	0.010 ^	V-1	NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.020 ^		7.0/19 &
Mangoes	177	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	397	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		0.70
Tomatoes, Canned	566	0			0.001 ^		1.7
TOTAL	**6,026**	**1**					
Quintozene - PCNB (fungicide) (parent of HCB, PCA, PCB and PCPMS)							
Cabbage	354	0			0.005 ^		0.1
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 - 0.025		NT
Kale	708	3	0.4	0.003 ^	0.002 ^		0.2
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	726	0			0.005 - 0.025		NT
Sweet Potatoes	701	0			0.025 ^		NT
Tomatoes, Canned	566	0			0.003 ^		0.1
TOTAL	**6,526**	**3**					
Quizalofop (metabolite of Quizalofop ethyl)							
Grapefruit	271	0			0.050 ^		NT
Olives, Canned	630	0			0.050 ^		NT
TOTAL	**901**	**0**					
Quizalofop ethyl (herbicide)							
Cranberries	311	0			0.025 ^		NT
Cranberries, Frozen	428	0			0.025 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Mangoes	177	0			0.001 - 0.025		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**2,196**	**0**					
Resmethrin (insecticide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Cabbage	354	0			0.020 ^		3.0
Cucumbers	298	0			0.020 ^		3.0
Grapefruit	526	0			0.003 - 0.005		3.0
Kale	708	0			0.005 ^		3.0
Mangoes	148	0			0.003 - 0.050		3.0
Olives, Canned	754	0			0.003 ^		3.0
Onions	348	0			0.020 ^		3.0
Pineapple, Canned	756	0			0.020 - 0.030		3.0
Snap Peas	710	0			0.005 ^		3.0
Sweet Potatoes	701	1	0.1	0.090 ^	0.030 ^		3.0
TOTAL	**5,303**	**1**					
Resmethrin cis (isomer of Resmethrin)							
Applesauce	570	0			0.050 ^		3.0
Asparagus	337	0			0.050 ^		3.0
Garbanzo Beans, Canned	189	0			0.002 ^		3.0
Lettuce	378	0			0.050 ^		3.0
Onions	360	0			0.002 ^		3.0
Plums, Dried / Prunes	191	0			0.050 ^		3.0
Tomatoes, Canned	566	0			0.002 ^		3.0
TOTAL	**2,591**	**0**					
Resmethrin trans (isomer of Resmethrin)							
Applesauce	570	0			0.050 ^		3.0
Asparagus	298	0			0.050 ^		3.0
Garbanzo Beans, Canned	189	0			0.002 ^		3.0
Lettuce	378	0			0.050 ^		3.0
Onions	360	0			0.002 ^		3.0
Plums, Dried / Prunes	191	0			0.050 ^		3.0
Tomatoes, Canned	566	0			0.002 ^		3.0
TOTAL	**2,552**	**0**					
Rimsulfuron (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		0.01
Cranberries, Frozen	428	0			0.005 ^		0.01
Cucumbers	378	0			0.010 ^		NT
Grapefruit	526	0			0.003 - 0.005		0.01
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**3,673**	**0**					
Rotenone (insecticide)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Saflufenacil (herbicide)							
Applesauce	570	0			0.010 ^		0.03
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	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	Tolerance Violation	EPA Tolerance Level, ppm
Cranberries, Frozen	428	0			0.020 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	526	0			0.003 - 0.010		0.03
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.020		0.03
Olives, Canned	754	0			0.003 ^		0.03
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		0.03
Snap Peas	710	0			0.004 ^		0.03
TOTAL	**5,876**	**0**					
Sedaxane (fungicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Sethoxydim (herbicide)							
Applesauce	570	0			0.003 ^		0.2
Asparagus	354	0			0.003 ^		4
Cranberries	311	0			0.005 ^		4.0
Cranberries, Frozen	428	0			0.005 ^		4.0
Grapefruit	526	0			0.003 - 0.005		0.5
Kale	708	0			0.002 ^		5.0
Lettuce	378	0			0.003 ^		4.0
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.003 ^		NT
Sweet Potatoes	701	0			0.010 ^		4.0
TOTAL	**5,457**	**0**					
Simazine (herbicide)							
Applesauce	570	0			0.005 ^		0.20
Asparagus	354	0			0.005 ^		NT
Cranberries	309	0			0.005 ^		0.25
Cranberries, Frozen	409	0			0.005 ^		0.25
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.010		0.25
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		0.20
Onions	360	0			0.001 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.005 ^		0.20
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**5,843**	**0**					
Simetryn (herbicide)							
Cabbage	354	0			0.005 ^		NT
TOTAL	**354**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Spinetoram (insecticide)							
Applesauce	570	0			0.003 ^		0.20
Asparagus	354	0			0.003 ^		0.04
Cabbage	354	0			0.010 ^		2.0
Cranberries	311	2	0.6	0.001 - 0.002	0.001 ^		0.50
Cranberries, Frozen	428	22	5.1	0.001 - 0.005	0.001 ^		0.50
Cucumbers	378	0			0.010 ^		0.30
Garbanzo Beans, Canned	189	0			0.001 ^		0.04
Grapefruit	526	0			0.001 - 0.010		0.30
Kale	708	85	12	0.017 - 0.41	0.010 ^		10
Lettuce	378	12	3.2	0.003 - 0.12	0.003 ^		8.0
Mangoes	177	0			0.001 - 0.010		0.30
Olives, Canned	754	0			0.010 ^		NT
Onions	320	0			0.010 ^		0.10
Pineapple, Canned	756	0			0.010 ^		0.04
Plums, Dried / Prunes	191	0			0.003 ^		0.30
Snap Peas	710	15	2.1	0.017 ^	0.010 ^		0.30
Sweet Potatoes	701	0			0.010 ^		0.10
Tomatoes, Canned	566	0			0.001 ^		0.40
TOTAL	**8,371**	**136**					
Spinosad (insecticide) (total of spinosyns A and D)							
Cabbage	354	0			0.004 ^		2.0
Cranberries	311	7	2.3	0.002 - 0.004	0.002 ^		0.40
Cranberries, Frozen	428	13	3	0.002 - 0.013	0.002 ^		0.40
Cucumbers	378	0			0.004 ^		0.3
Garbanzo Beans, Canned	189	0			0.001 ^		0.02
Grapefruit	526	0			0.002 - 0.003		0.30
Kale	708	36	5.1	0.003 - 1.2	0.002 ^		10.0
Mangoes	177	0			0.002 - 0.003		0.3
Olives, Canned	754	0			0.003 ^		0.02
Onions	320	0			0.004 ^		0.10
Pineapple, Canned	397	0			0.004 ^		0.02
Snap Peas	710	22	3.1	0.003 - 0.070	0.002 ^		0.30
Tomatoes, Canned	566	1	0.2	0.002 ^	0.001 ^		0.40
TOTAL	**5,818**	**79**					
Spinosad A (isomer of Spinosad)							
Applesauce	570	0			0.003 ^		0.20
Asparagus	354	0			0.003 ^		0.2
Lettuce	378	2	0.5	0.008 - 0.11	0.003 ^		8.0
Pineapple, Canned	359	0			0.005 ^		0.02
Plums, Dried / Prunes	191	0			0.003 ^		0.20
Sweet Potatoes	701	0			0.005 ^		0.10
TOTAL	**2,553**	**2**					
Spinosad D (isomer of Spinosad)							
Pineapple, Canned	359	0			0.005 ^		0.02
Sweet Potatoes	701	0			0.005 ^		0.10
TOTAL	**1,060**	**0**					
Spirodiclofen (acaricide)							
Applesauce	570	0			0.010 ^		0.80
Asparagus	354	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	Tolerance Violation	EPA Tolerance Level, ppm
Cabbage	354	0			0.010 ^		NT
Cranberries	307	0			0.005 ^		NT
Cranberries, Frozen	380	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.005 ^		NT
Grapefruit	467	0			0.003 - 0.005		0.50
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.005		1.0
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		1.0
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**6,304**	**0**					
Spiromesifen Total (parent + enol metabolite) (insecticide)							
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Onions	360	0			0.002 ^		0.09
Tomatoes, Canned	566	0			0.008 ^		0.45
TOTAL	**1,115**	**0**					
Spiromesifen (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	325	0			0.010 ^		NT
Cranberries	311	0			0.010 ^		2.0
Cranberries, Frozen	428	0			0.010 ^		2.0
Cucumbers	378	13	3.4	0.002 - 0.010	0.002 ^		0.10
Grapefruit	526	0			0.003 - 0.020		NT
Kale	708	5	0.7	0.002 - 0.13	0.001 ^		12
Lettuce	378	0			0.010 ^		12
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**4,746**	**18**					
Spiromesifen alcohol (metabolite of Spiromesifen)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Spirotetramat (insecticide)							
Applesauce	570	0			0.002 ^		0.70
Asparagus	354	0			0.002 ^		NT
Cabbage	354	0			0.010 ^		2.5
Cranberries	311	0			0.002 ^		3.0
Cranberries, Frozen	428	3	0.7	0.003 - 0.005	0.002 ^		3.0
Garbanzo Beans, Canned	189	0			0.002 ^		2.5
Grapefruit	526	0			0.001 ^		0.60
Kale	708	84	11.9	0.008 - 0.89	0.005 ^		8.0
Lettuce	378	13	3.4	0.002 - 0.082	0.002 ^		9.0
Mangoes	177	0			0.001 - 0.002		0.60
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.002 - 0.010		0.80

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	756	0			0.005 - 0.010		0.30
Plums, Dried / Prunes	191	0			0.002 ^		4.5
Snap Peas	710	2	0.3	0.008 ^	0.005 ^		2.5
Sweet Potatoes	701	0			0.005 ^		0.60
TOTAL	**7,815**	**102**					
Spiroxamine (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		0.05
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	320	0			0.010 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**5,117**	**0**					
Sulfallate (herbicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
TOTAL	**1,115**	**0**					
Sulfentrazone (herbicide)							
Cabbage	354	0			0.005 ^		0.20
Cranberries	311	0			0.015 ^		0.15
Cranberries, Frozen	428	0			0.015 ^		0.15
Grapefruit	526	0			0.010 - 0.015		0.15
Kale	708	0			0.020 - 0.067		0.4
Mangoes	177	0			0.003 - 0.015		NT
Olives, Canned	691	0			0.003 - 0.010		NT
Pineapple, Canned	359	0			0.035 ^		NT
Snap Peas	710	0			0.020 ^		0.15
Sweet Potatoes	701	0			0.035 ^		0.15
TOTAL	**4,965**	**0**					
Sulfometuron methyl (herbicide)							
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
TOTAL	**1,115**	**0**					
Sulfosulfuron (herbicide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	691	0			0.001 - 0.005		NT
TOTAL	**721**	**0**					
Sulfoxaflor (insecticide)							
Cranberries	311	0			0.050 ^		0.70
Cranberries, Frozen	428	0			0.050 ^		0.70

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.003 - 0.10		3.0
Kale	708	8	1.1	0.033 - 0.13	0.020 - 0.067		2.0
Mangoes	177	0			0.003 - 0.050		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	360	0			0.001 - 0.004		0.01
Tomatoes, Canned	566	0			0.001 ^		0.70
TOTAL	**4,019**	**8**					
Sulprofos (insecticide)							
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	360	0			0.002 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**2,230**	**0**					
TCMTB (fungicide)							
Cranberries	311	0			0.10 ^		NT
Cranberries, Frozen	428	0			0.10 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Mangoes	177	0			0.005 - 0.10		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**2,196**	**0**					
Tebuconazole (fungicide)							
Applesauce	570	0			0.010 ^		0.05
Asparagus	354	0			0.010 ^		0.05
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	5	1.3	0.007 - 0.027	0.005 ^		0.4
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		NT
Kale	708	34	4.8	0.008 - 5.9	0.005 ^	X-1	2.5
Lettuce	378	0			0.010 ^		NT
Mangoes	177	3	1.7	0.005 - 0.011	0.003 - 0.005		0.15
Olives, Canned	754	13	1.7	0.008 - 0.038	0.003 - 0.005	V-13	NT
Onions	708	0			0.001 - 0.005		0.2
Pineapple, Canned	756	0			0.005 - 0.015		NT
Plums, Dried / Prunes	191	2	1	0.011 - 0.033	0.010 ^		1.0
Snap Peas	710	82	11.5	0.008 - 0.39	0.005 ^	V-82	NT
Sweet Potatoes	701	0			0.015 ^		NT
Tomatoes, Canned	566	0			0.003 ^		1.3
TOTAL	**8,759**	**139**					
Tebufenozide (insecticide)							
Applesauce	570	0			0.002 ^		1.0
Asparagus	354	0			0.002 ^		NT
Cabbage	354	0			0.005 ^		5.0
Cranberries	311	9	2.9	0.004 - 0.010	0.002 ^		1.0
Cranberries, Frozen	428	0			0.002 ^		1.0
Cucumbers	378	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	Tolerance Violation	EPA Tolerance Level, ppm
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.005 - 0.020		2.0
Lettuce	378	0			0.002 ^		10.0
Mangoes	177	0			0.002 - 0.005		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	708	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	0			0.005 ^		0.015
Tomatoes, Canned	566	0			0.002 ^		1.0
TOTAL	**7,341**	**9**					
Tebufenpyrad (insecticide, acaricide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,652**	**0**					
Tebupirimfos (insecticide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
TOTAL	**549**	**0**					
Tebuthiuron (herbicide)							
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**2,230**	**0**					
Tecnazene (plant growth regulator)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 - 0.010		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	397	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,707**	**0**					
Teflubenzuron (insecticide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	117	0			0.005 - 0.010		1.5
Olives, Canned	691	0			0.005 ^		NT
Pineapple, Canned	359	0			0.020 ^		0.80

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**2,139**	**0**					
Tefluthrin (insecticide)							
Applesauce	570	0			0.002 ^		NT
Asparagus	354	0			0.002 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Kale	708	0			0.001 ^		NT
Lettuce	378	0			0.002 ^		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Snap Peas	710	0			0.001 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**8,759**	**0**					
Tepraloxydim (herbicide)							
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Mangoes	177	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
TOTAL	**2,196**	**0**					
Terbacil (herbicide)							
Applesauce	570	0			0.010 ^		0.3
Asparagus	354	0			0.010 ^		0.4
Cabbage	354	0			0.008 ^		NT
Cucumbers	378	0			0.008 ^		NT
Garbanzo Beans, Canned	189	0			0.003 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	626	0			0.001 - 0.005		NT
Onions	708	0			0.003 - 0.008		NT
Pineapple, Canned	756	0			0.008 - 0.020		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.003 ^		NT
TOTAL	**5,861**	**0**					
Terbufos (insecticide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.003 - 0.005		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	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	Tolerance Violation	EPA Tolerance Level, ppm
TOTAL	**2,196**	**0**					
Terbufos oxygen analog (metabolite of Terbufos)							
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Grapefruit	255	0			0.001 ^		NT
Mangoes	87	0			0.001 ^		NT
TOTAL	**1,081**	**0**					
Terbufos oxygen analog sulfone (metabolite of Terbufos)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Mangoes	177	0			0.005 - 0.010		NT
TOTAL	**1,442**	**0**					
Terbufos oxygen analog sulfoxide (metabolite of Terbufos)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	255	0			0.005 ^		NT
Mangoes	87	0			0.005 ^		NT
TOTAL	**1,081**	**0**					
Terbufos sulfone (metabolite of Terbufos)							
Cranberries	311	0			0.025 ^		NT
Cranberries, Frozen	428	0			0.025 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.005 ^		NT
Mangoes	177	0			0.005 - 0.025		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	360	0			0.001 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,311**	**0**					
Terbufos sulfoxide (metabolite of Terbufos)							
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Grapefruit	526	0			0.002 - 0.003		NT
Mangoes	177	0			0.002 - 0.003		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**2,196**	**0**					
Terbuthylazine (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**3,652**	**0**					
Terbutryn (herbicide)							

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	30	0			0.001 ^		NT
Olives, Canned	31	0			0.001 ^		NT
TOTAL	**61**	**0**					
Tetrachlorvinphos (insecticide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	526	0			0.001 - 0.005		NT
Mangoes	177	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	360	0			0.002 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**3,311**	**0**					
Tetraconazole (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	360	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		0.30
TOTAL	**3,723**	**0**					
Tetradifon (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.002 ^		NT
Grapefruit	271	0			0.010 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	90	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT
Onions	708	0			0.002 - 0.005		NT
Pineapple, Canned	726	0			0.005 - 0.020		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.020 ^		NT
Tomatoes, Canned	566	0			0.002 ^		NT
TOTAL	**6,230**	**0**					
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)							
Applesauce	570	394	69.1	0.010 - 0.45	0.010 ^		25.0
Asparagus	354	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.004 ^		0.05
Grapefruit	271	0			0.020 ^		NT
Kale	708	2	0.3	0.012 - 0.027	0.007 ^		0.05
Lettuce	378	0			0.010 ^		0.05
Mangoes	90	0			0.005 - 0.020		NT
Olives, Canned	754	0			0.005 - 0.020		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	360	0			0.004 ^		0.05
Plums, Dried / Prunes	191	0			0.010 ^		10.0
Snap Peas	710	57	8	0.012 - 0.25	0.007 ^	X-11	0.05
Tomatoes, Canned	566	0			0.004 - 0.012		0.05
TOTAL	**5,141**	**453**					
Tetramethrin (insecticide)							
Applesauce	570	0			0.005 ^		NT
Asparagus	354	0			0.005 ^		NT
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	272	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.010		NT
Kale	708	0			0.003 ^		NT
Lettuce	378	0			0.005 ^		NT
Mangoes	177	0			0.005 - 0.010		NT
Olives, Canned	754	0			0.005 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.10		NT
Plums, Dried / Prunes	191	0			0.005 ^		NT
Snap Peas	710	0			0.003 ^		NT
Sweet Potatoes	701	0			0.10 ^		NT
TOTAL	**7,538**	**0**					
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)							
Applesauce	570	184	32.3	0.002 - 0.67	0.002 ^		5.0
Asparagus	294	0			0.002 ^		NT
Cabbage	354	0			0.010 ^		0.02
Cranberries	280	0			0.005 ^		NT
Cranberries, Frozen	425	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		0.02
Garbanzo Beans, Canned	189	0			0.001 ^		0.02
Grapefruit	526	377	71.7	0.001 - 0.20	0.001 - 0.016		10.0
Lettuce	378	1	0.3	0.005 ^	0.002 ^	V-1	NT
Mangoes	177	85	48	0.001 - 2.0	0.001 - 0.005		10.0
Olives, Canned	754	0			0.001 ^		NT
Onions	708	0			0.001 - 0.010		0.02
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.002 ^		NT
Sweet Potatoes	701	97	13.8	0.006 - 4.1	0.005 ^		10
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**7,247**	**744**					
Thiacloprid (insecticide)							
Applesauce	570	9	1.6	0.001 - 0.002	0.001 ^		0.30
Asparagus	354	0			0.001 ^		NT
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.001 ^		NT
Lettuce	378	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	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	Tolerance Violation	EPA Tolerance Level, ppm
Onions	708	0			0.001 - 0.010		NT
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.001 ^		0.05
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,260**	**9**					
Thiamethoxam (insecticide) (also a parent of Clothianidin)							
Applesauce	570	5	0.9	0.004 - 0.005	0.003 ^		0.2
Asparagus	354	1	0.3	0.008 ^	0.003 ^		0.02
Cabbage	354	13	3.7	0.010 - 0.081	0.010 ^		4.5
Cranberries	311	0			0.010 ^		0.20
Cranberries, Frozen	428	0			0.010 ^		0.20
Cucumbers	378	41	10.8	0.010 - 0.065	0.010 ^		0.2
Garbanzo Beans, Canned	189	0			0.002 ^		0.02
Grapefruit	526	8	1.5	0.001 - 0.030	0.001 - 0.005		0.40
Kale	708	24	3.4	0.050 - 0.40	0.030 ^		3.0
Lettuce	378	52	13.8	0.003 - 0.049	0.003 ^		4.0
Mangoes	177	0			0.001 - 0.010		0.40
Olives, Canned	754	0			0.001 ^		0.02
Onions	708	2	0.3	0.003 ^	0.002 - 0.010		0.03
Pineapple, Canned	756	0			0.005 - 0.010		0.02
Plums, Dried / Prunes	191	0			0.003 ^		0.5
Snap Peas	710	3	0.4	0.050 - 0.17	0.030 ^	X-3	0.02
Sweet Potatoes	701	0			0.005 ^		0.02
Tomatoes, Canned	566	0			0.002 ^		0.25
TOTAL	**8,759**	**149**					
Thiazopyr (herbicide)							
Applesauce	570	0			0.008 ^		NT
Asparagus	354	0			0.008 ^		NT
Cranberries	311	0			0.001 ^		NT
Cranberries, Frozen	428	0			0.001 ^		NT
Grapefruit	526	0			0.001 - 0.003		NT
Lettuce	378	0			0.008 ^		NT
Mangoes	177	0			0.001 - 0.003		NT
Olives, Canned	754	0			0.003 ^		NT
Plums, Dried / Prunes	191	0			0.008 ^		NT
TOTAL	**3,689**	**0**					
Thidiazuron (plant growth regulator)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.005 ^		NT
Olives, Canned	754	0			0.005 ^		NT
TOTAL	**1,115**	**0**					
Thiencarbazone methyl (herbicide)							
Grapefruit	271	0			0.020 ^		NT
Mangoes	30	0			0.003 ^		NT
Olives, Canned	691	0			0.003 - 0.020		NT
TOTAL	**992**	**0**					
Thifensulfuron methyl (herbicide)							
Grapefruit	271	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	Tolerance Violation	EPA Tolerance Level, ppm
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Thiobencarb (herbicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Lettuce	378	0			0.010 ^		0.2
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	360	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**3,723**	**0**					
Thiodicarb (insecticide)							
Applesauce	570	0			0.003 ^		NT
Asparagus	354	0			0.003 ^		NT
Grapefruit	271	0			0.010 ^		NT
Lettuce	378	0			0.003 ^		35
Mangoes	90	0			0.010 ^		NT
Olives, Canned	754	0			0.010 ^		NT
Pineapple, Canned	359	0			0.010 ^		NT
Plums, Dried / Prunes	191	0			0.003 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,668**	**0**					
Thionazin (insecticide, fumigant)							
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
TOTAL	**1,115**	**0**					
Thiophanate methyl (fungicide)							
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Grapefruit	255	0			0.005 ^		NT
Mangoes	87	0			0.005 ^		NT
TOTAL	**1,081**	**0**					
Tolclofos methyl (fungicide)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
TOTAL	**1,115**	**0**					
Tolfenpyrad (insecticide)							
Grapefruit	271	0			0.005 ^		1.5
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Tolylfluanid (fungicide)							
Pineapple, Canned	329	0			0.050 - 0.10		NT
Sweet Potatoes	701	0			0.050 ^		NT
TOTAL	**1,030**	**0**					
Topramezone (herbicide)							
Cranberries	299	0			0.10 ^		NT
Cranberries, Frozen	418	0			0.10 ^		NT
Grapefruit	255	0			0.25 ^		NT
TOTAL	**972**	**0**					
Tri-Allate (herbicide)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	754	0			0.001 - 0.005		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	397	0			0.005 ^		NT
TOTAL	**2,592**	**0**					
Triadimefon (fungicide) (also a parent of Triadimenol)							
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		NT
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.003 ^		NT
Mangoes	90	0			0.003 ^		NT
Olives, Canned	754	0			0.003 ^		NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		2.0
Sweet Potatoes	701	0			0.005 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**4,767**	**0**					
Triadimenol (fungicide) (also a metabolite of Triadimefon)							
Cabbage	354	0			0.005 ^		NT
Cranberries	311	0			0.025 ^		NT
Cranberries, Frozen	428	0			0.025 ^		NT
Cucumbers	378	0			0.005 ^		NT
Grapefruit	526	0			0.005 - 0.020		NT
Mangoes	177	0			0.020 - 0.025		NT
Olives, Canned	754	0			0.020 ^		NT
Onions	348	0			0.005 ^		NT
Pineapple, Canned	756	0			0.005 - 0.020		2.0
Sweet Potatoes	701	0			0.020 ^		NT
TOTAL	**4,733**	**0**					
Triasulfuron (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Triazophos (insecticide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	756	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
TOTAL	**3,652**	**0**					
Tribenuron methyl (herbicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Trichlorfon (insecticide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cranberries	311	0			0.040 ^		NT
Cranberries, Frozen	428	0			0.040 ^		NT
Grapefruit	526	0			0.003 - 0.020		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	177	0			0.003 - 0.040		NT
Olives, Canned	754	0			0.003 - 0.005		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**3,689**	**0**					
Trichloronate (insecticide)							
Mangoes	30	0			0.001 ^		NT
Olives, Canned	61	0			0.001 ^		NT
TOTAL	**91**	**0**					
Triclopyr (herbicide)							
Grapefruit	271	0			0.25 ^		NT
Olives, Canned	630	0			0.25 ^		NT
TOTAL	**901**	**0**					
Tricyclazole (fungicide)							
Grapefruit	271	0			0.001 ^		NT
Mangoes	90	0			0.001 ^		NT
Olives, Canned	754	0			0.001 ^		NT
TOTAL	**1,115**	**0**					
Trifloxystrobin (fungicide)							
Applesauce	570	0			0.002 ^		0.5
Asparagus	354	0			0.001 - 0.002		0.07
Cabbage	354	0			0.005 ^		2.0
Cranberries	311	0			0.001 ^		1.5
Cranberries, Frozen	428	0			0.001 ^		1.5
Cucumbers	378	0			0.005 ^		0.50
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	526	0			0.001 ^		0.6

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Kale	708	14	2	0.003 - 0.88	0.002 ^		30
Lettuce	378	0			0.002 ^		30
Mangoes	177	22	12.4	0.001 - 0.061	0.001 ^		0.7
Olives, Canned	754	1	0.1	0.006 ^	0.001 ^	V-1	NT
Onions	708	0			0.001 - 0.005		NT
Pineapple, Canned	756	0			0.005 ^		NT
Plums, Dried / Prunes	191	2	1	0.003 - 0.010	0.002 ^		2
Sweet Potatoes	701	0			0.005 ^		0.04
Tomatoes, Canned	566	1	0.2	0.002 ^	0.001 ^		0.5
TOTAL	**8,049**	**40**					
Trifloxysulfuron (herbicide)							
Applesauce	570	0			0.020 ^		NT
Asparagus	354	0			0.020 ^		NT
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Grapefruit	526	0			0.001 - 0.005		0.03
Lettuce	378	0			0.020 ^		NT
Mangoes	177	0			0.001 - 0.010		NT
Olives, Canned	754	0			0.001 ^		NT
Plums, Dried / Prunes	191	0			0.020 ^		NT
TOTAL	**3,689**	**0**					
Triflumizole (fungicide)							
Applesauce	570	0			0.010 ^		0.50
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.003 ^		8.0
Cranberries	311	0			0.010 ^		NT
Cranberries, Frozen	428	0			0.010 ^		NT
Cucumbers	378	3	0.8	0.038 - 0.058	0.003 ^		0.5
Grapefruit	526	0			0.003 - 0.005		NT
Kale	708	24	3.4	0.003 - 0.84	0.002 ^		40
Lettuce	378	0			0.010 ^		35
Mangoes	177	0			0.003 - 0.010		2.5
Olives, Canned	754	0			0.003 ^		NT
Onions	348	0			0.003 ^		NT
Pineapple, Canned	756	0			0.003 - 0.005		4.0
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.005 ^		NT
TOTAL	**6,934**	**27**					
Trifluralin (herbicide)							
Applesauce	570	0			0.001 ^		NT
Asparagus	354	2	0.6	0.001 ^	0.001 ^		0.05
Cabbage	354	0			0.005 ^		0.05
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		0.05
Garbanzo Beans, Canned	189	0			0.001 ^		0.05
Grapefruit	526	0			0.005 - 0.010		0.05
Kale	708	63	8.9	0.002 - 0.016	0.001 ^		0.05
Lettuce	378	1	0.3	0.001 ^	0.001 ^	V-1	NT
Mangoes	177	0			0.003 - 0.010		NT
Olives, Canned	754	0			0.003 - 0.010		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Onions	708	0			0.001 - 0.005		0.05
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.001 ^		0.05
Snap Peas	710	0			0.001 ^		0.05
Sweet Potatoes	701	0			0.010 ^		0.05
Tomatoes, Canned	566	5	0.9	0.002 - 0.007	0.001 ^		0.05
TOTAL	**8,759**	**71**					
Triforine (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Grapefruit	271	0			0.10 ^		NT
Lettuce	378	0			0.010 ^		NT
Mangoes	60	0			0.10 ^		NT
Olives, Canned	661	0			0.10 ^		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
TOTAL	**2,485**	**0**					
Triticonazole (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.005 ^		NT
Cranberries, Frozen	428	0			0.005 ^		NT
Cucumbers	378	0			0.010 ^		NT
Grapefruit	526	0			0.005 - 0.025		NT
Mangoes	177	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**3,673**	**0**					
Uniconazole (insect growth regulator)							
Grapefruit	271	0			0.005 ^		NT
Mangoes	90	0			0.001 - 0.005		NT
Olives, Canned	722	0			0.001 - 0.005		NT
TOTAL	**1,083**	**0**					
Vernolate (herbicide)							
Cabbage	354	0			0.010 ^		NT
Cucumbers	378	0			0.010 ^		NT
Onions	348	0			0.010 ^		NT
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**1,477**	**0**					
Vinclozolin (fungicide)							
Applesauce	570	0			0.010 ^		NT
Asparagus	354	0			0.010 ^		NT
Cabbage	354	0			0.005 ^		NT
Cucumbers	378	0			0.005 ^		1.0
Garbanzo Beans, Canned	189	0			0.001 ^		NT
Grapefruit	271	0			0.005 ^		NT
Lettuce	378	0			0.010 ^		10.0
Mangoes	90	0			0.003 - 0.005		NT
Olives, Canned	754	0			0.003 - 0.005		NT
Onions	708	0			0.001 - 0.005		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Pineapple, Canned	756	0			0.005 - 0.010		NT
Plums, Dried / Prunes	191	0			0.010 ^		NT
Sweet Potatoes	701	0			0.010 ^		NT
Tomatoes, Canned	566	0			0.001 ^		NT
TOTAL	**6,260**	**0**					
Zoxamide (fungicide)							
Cabbage	354	0			0.010 ^		NT
Cranberries	311	0			0.002 ^		NT
Cranberries, Frozen	428	0			0.002 ^		NT
Grapefruit	526	0			0.001 - 0.002		NT
Mangoes	177	0			0.001 - 0.002		NT
Olives, Canned	754	0			0.001 ^		NT
Onions	348	0			0.010 ^		0.7
Pineapple, Canned	397	0			0.010 ^		NT
TOTAL	**3,295**	**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 2017 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 pesticide/commodity pair.

& Tolerance is different for head and leaf lettuce. First value shown is for head lettuce and the second is for leaf lettuce.

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 when used to control insect larvae.

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.

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 lettuce as a possible result of an acephate application.

5 Propamocarb analytically determined as the salt (hydrochloride).

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

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 3 and 4 in Appendix K 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 Honey

Appendix C shows residue detections for all compounds tested in honey, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and appendixes apply to 2017 and not to the current year. There may be instances where tolerances have been recently set, modified, or revoked that would have an effect on whether a residue is violative or not.

In 2017, the Pesticide Data Program (PDP) analyzed 315 honey samples. PDP detected six different residues (including metabolites), representing six pesticides, in the honey samples. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN HONEY

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
1-Naphthol	IM	315				0.20 ^	NT
2,4-dimethylphenyl formamide (2,4-DMPF)	I	315	238	75.6	0.003 - 0.082	0.003 ^	0.2
2,6-dichlorobenzamide (V-2)	HM	315	2	0.6	0.020 - 0.074	0.008 ^	NT
3-Hydroxycarbofuran	IM	315				0.005 ^	NT
4-Hydroxychlorothalonil	FM	315				0.005 ^	NT
Acephate	I	315				0.050 ^	0.02
Acetamiprid	I	315				0.005 ^	0.01
Acetochlor	H	315				0.20 ^	NT
Acrinathrin	I	315				0.20 ^	NT
Alachlor (V-3)	H	315	3	1	0.46 - 1.1	0.40 ^	NT
Aldicarb	I	315				0.015 ^	NT
Aldicarb sulfone	IM	315				0.003 ^	NT
Aldicarb sulfoxide	IM	315				0.008 ^	NT
Ametoctradin	F	315				0.003 ^	NT
Atrazine	H	315				0.008 ^	NT
Avermectin	I	315				0.10 ^	NT
Azinphos methyl	I	315				0.50 ^	NT
Azoxystrobin	F	315				0.003 ^	NT
Bensulide	H	315				0.008 ^	NT
Bentazon	H	315				0.060 ^	NT
Bifenazate	A	252				0.007 ^	NT
Bifenthrin	I	315				0.020 ^	0.05
Boscalid	F	315				0.010 ^	NT
Bromacil	H	315				0.020 ^	NT
Bromopropylate	A	315				0.050 ^	NT
Bromuconazole	F	315				0.020 ^	NT
Buprofezin	I	315				0.004 ^	NT
Captan	F	315				0.50 ^	NT
Carbaryl	I	315				0.010 ^	NT
Carbendazim (MBC) (V-3)	F	315	3	1	0.005 ^	0.005 ^	NT
Carbofuran	I	315				0.003 ^	NT
Carfentrazone ethyl	H	315				0.010 ^	NT
Chlorantraniliprole	I	315				0.030 ^	NT
Chlorfenapyr	I	315				0.50 ^	0.01
Chlorfenvinphos total	I	315				0.10 ^	NT
Chlorothalonil	F	252				0.50 ^	NT
Chlorpropham	H	315				0.030 ^	NT
Chlorpyrifos	I	315				0.010 ^	0.1
Chlorpyrifos methyl	I	315				0.020 ^	NT
Clofentezine	I	315				0.050 ^	NT
Clothianidin	I	315				0.015 ^	0.02
Coumaphos	I	315	1	0.3	0.013 ^	0.008 ^	0.15
Coumaphos oxygen analog	IM	315				0.001 ^	0.15
Cyantraniliprole	I	315				0.030 ^	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
Cyazofamid	F	315				0.004 ^	NT
Cyflufenamid	F	315				0.003 ^	NT
Cyflumetofen	A	315				0.025 ^	NT
Cyfluthrin	I	315				0.050 ^	0.05
Cyhalothrin, Lambda	I	315				0.20 ^	0.01
Cymiazole	A	315				0.008 ^	NT
Cymoxanil	F	315				0.008 ^	NT
Cypermethrin	I	315				0.050 ^	0.05
Cyphenothrin	I	315				2.0 ^	NT
Cyprodinil	F	315				0.004 ^	NT
Cyromazine	R	315				0.010 ^	NT
DCPA	H	315				0.005 ^	NT
DEET (N,N-diethyl-m-toluamide)	X	315				0.006 ^	NT
DEF (Tribufos)	H	315				0.20 ^	NT
Deltamethrin [1]	I	315				0.20 ^	0.05
Diazinon	I	315				0.050 ^	NT
Diazinon oxygen analog	IM	256				0.008 ^	NT
Dichlorvos (DDVP)	I	315				0.006 ^	0.5
Dicloran	F	315				0.050 ^	NT
Dicofol p,p'	I	315				0.50 ^	NT
Difenoconazole	F	315				0.008 ^	NT
Diflubenzuron	I	315				0.005 ^	NT
Dimethenamid	H	315				0.010 ^	NT
Dimethoate	I	315				0.005 ^	NT
Dimethomorph	F	315				0.050 ^	NT
Dinotefuran	I	315				0.010 ^	0.01
Diphenamid	H	315				0.010 ^	NT
Diphenylamine (DPA)	F	315				0.005 ^	NT
Diuron	H	315				0.002 ^	NT
Emamectin benzoate	I	315				0.004 ^	NT
Endosulfan I	IM	315				0.020 ^	NT
Endosulfan II	IM	315				0.020 ^	NT
Endosulfan sulfate	IM	315				0.020 ^	NT
Epoxiconazole	F	315				0.004 ^	NT
Esfenvalerate+Fenvalerate Total	I	315				0.050 ^	0.05
Ethion	I	315				0.050 ^	NT
Ethofumesate	H	315				0.030 ^	NT
Etofenprox	I	315				0.050 ^	5.0
Etoxazole	A	315				0.001 ^	NT
Famoxadone	F	315				0.010 ^	NT
Fenamidone	F	315				0.003 ^	NT
Fenarimol	F	315				0.025 ^	NT
Fenazaquin	I	315				0.005 ^	NT
Fenbuconazole	F	315				0.006 ^	NT
Fenhexamid	F	315				0.009 ^	NT
Fenoxaprop ethyl	H	315				0.004 ^	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
Fenpropathrin	I	315				0.050 ^	NT
Fenpyroximate	A	315				0.006 ^	0.10
Fipronil	I	315				0.050 ^	NT
Fipronil sulfide (MB45950)	IM	315				0.010 ^	NT
Fipronil sulfone (MB46136)	IM	315				0.050 ^	NT
Flonicamid	I	315				0.015 ^	NT
Fludioxonil	F	315				0.020 ^	NT
Fluometuron	H	315				0.003 ^	NT
Fluopicolide	F	315				0.006 ^	NT
Fluopyram	F	315				0.002 ^	NT
Fluoxastrobin	F	315				0.005 ^	NT
Flupyradifurone	I	315				0.015 ^	NT
Fluridone	H	315				0.002 ^	NT
Flutriafol	F	315				0.020 ^	NT
Fluvalinate	I	315				0.050 ^	0.02
Fluxapyroxad	F	315				0.004 ^	NT
Hexazinone	H	315				0.002 ^	NT
Hexythiazox	I	315				0.005 ^	NT
Imazalil	F	315				0.025 ^	NT
Imidacloprid	I	315				0.010 ^	NT
Indoxacarb	I	315				0.015 ^	NT
Iprodione	F	315				0.20 ^	NT
Kresoxim-methyl	F	315				0.005 ^	NT
Linuron	H	315				0.030 ^	NT
Malathion	I	315				0.050 ^	NT
Mandipropamid	F	315				0.004 ^	NT
Metalaxyl/Mefenoxam [2]	F	315				0.003 ^	NT
Metconazole	F	315				0.010 ^	NT
Methamidophos	I	315				0.15 ^	0.02
Methidathion	I	315				0.004 ^	NT
Methomyl	I	315				0.007 ^	NT
Methoprene	R	315				0.010 ^	NT
Methoxyfenozide	I	315				0.002 ^	NT
Metolachlor	H	315				0.050 ^	NT
Metribuzin	H	315				0.050 ^	NT
MGK-264	I	315				0.015 ^	5
Momfluorothrin	I	315				0.050 ^	NT
Myclobutanil	F	315				0.015 ^	NT
Norflurazon	H	315				0.015 ^	NT
Norflurazon desmethyl	HM	315				0.010 ^	NT
Novaluron	I	315				0.010 ^	0.01
Omethoate	IM	252				0.025 ^	NT
Oxamyl	I	315				0.020 ^	NT
Oxyfluorfen	H	315				0.20 ^	NT
Parathion ethyl	I	315				0.10 ^	NT
Parathion methyl	I	315				0.050 ^	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
Penconazole	F	315				0.004 ^	NT
Pendimethalin	H	315				0.040 ^	NT
Penthiopyrad	F	315				0.002 ^	NT
Permethrin Total	I	315				0.20 ^	NT
Phenothrin	I	315				0.20 ^	0.01
Phorate	I	315				0.020 ^	NT
Phosalone	I	315				0.010 ^	NT
Phosmet	I	315				0.20 ^	NT
Phosmet oxygen analog	IM	315				0.002 ^	NT
Picoxystrobin	F	315				0.006 ^	NT
Piperonyl butoxide	I	315				0.025 ^	10
Prallethrin	I	315				0.50 ^	1.0
Prodiamine	H	315				0.020 ^	NT
Profenofos	I	315				0.005 ^	NT
Prometon	H	315				0.002 ^	NT
Prometryn	H	315				0.008 ^	NT
Pronamide	H	315				0.050 ^	NT
Propachlor	H	315				0.005 ^	NT
Propamocarb hydrochloride	F	315				0.005 ^	NT
Propanil	H	315				0.010 ^	NT
Propargite	I	315				0.005 ^	NT
Propazine	H	315				0.005 ^	NT
Propetamphos	I	315				0.005 ^	NT
Propiconazole	F	315				0.005 ^	NT
Pymetrozine	I	315				0.050 ^	NT
Pyraclostrobin	F	315				0.005 ^	NT
Pyridaben	I	315				0.005 ^	NT
Pyrimethanil	F	315				0.010 ^	NT
Pyriproxyfen	I	315				0.003 ^	0.10
Quinoxyfen	F	315				0.004 ^	NT
Quintozene (PCNB)	F	315				0.010 ^	NT
Resmethrin cis	IM	315				0.50 ^	3.0
Resmethrin trans	IM	315				0.50 ^	3.0
Sethoxydim	H	315				0.005 ^	NT
Simazine	H	315				0.040 ^	NT
Spinetoram	I	315				0.030 ^	NT
Spinosad	I	315				0.015 ^	NT
Spirodiclofen	A	315				0.008 ^	NT
Spiromesifen	I	315				0.050 ^	NT
Spirotetramat	I	315				0.005 ^	NT
Sulfoxaflor	I	315				0.020 ^	NT
Tebuconazole	F	315				0.010 ^	NT
Tebufenozide	I	315				0.001 ^	NT
Tebuthiuron	H	315				0.005 ^	NT
Tefluthrin	I	315				0.005 ^	NT
Tetraconazole	F	315				0.005 ^	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
Tetradifon	I	315				0.020 ^	NT
Tetrahydrophthalimide (THPI)	FM	315				0.25 ^	NT
Tetramethrin	I	315				0.20 ^	NT
Thiabendazole	F	315				0.010 ^	NT
Thiacloprid	I	315				0.005 ^	NT
Thiamethoxam	I	315				0.005 ^	0.02
Thymol	F	315	43	13.7	0.007 - 0.21	0.005 ^	EX
Tolfenpyrad	I	315				0.008 ^	NT
Triadimefon	F	315				0.015 ^	NT
Triadimenol	F	315				0.025 ^	NT
Triazophos	I	315				0.003 ^	NT
Trifloxystrobin	F	315				0.002 ^	NT
Triflumizole	F	315				0.002 ^	NT
Trifluralin	H	315				0.020 ^	NT
Triticonazole	F	315				0.010 ^	NT
Vinclozolin	F	315				0.050 ^	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 2017 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.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 3 and 4 in Appendix K to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.

1 = Deltamethrin includes parent Tralomethrin.

2 = 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
R = Insect Growth Regulator
X = Other (Insect Repellent)

Appendix D

Distribution of Residues by Pesticide in Milk

Appendix D shows residue detections for all compounds tested in milk, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and appendixes apply to 2017 and not to the current year. There may be instances where tolerances have been recently set, modified, or revoked that would have an effect on whether a residue is violative or not.

In 2017, the Pesticide Data Program (PDP) analyzed 711 milk samples. PDP detected just 1 pesticide in the milk samples, the insecticide Flubendiamide, which was detected in 12 samples at concentrations ranging from 0.003 to 0.005 ppm where the established tolerance was 0.15 ppm.

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

APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN MILK

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
2,4-dimethylphenyl formamide (2,4-DMPF)	I	711				0.005 ^	0.03
2,6-DIPN	P	711				0.010 ^	0.02 *
3-Hydroxycarbofuran	IM	711				0.0012 ^	NT
5-Hydroxythiabendazole	FM	681				0.0012 ^	0.1
Abamectin	I	711				0.020 ^	0.015
Acephate	I	711				0.005 ^	0.1
Acetamiprid	I	711				0.0012 ^	0.30
Acetochlor	H	711				0.005 ^	0.02
Acifluorfen	H	622				0.050 ^	NT
Alachlor	H	711				0.010 ^	0.02
Aldicarb	I	711				0.005 ^	NT
Aldicarb sulfone	IM	711				0.0026 ^	NT
Aldicarb sulfoxide	IM	711				0.0026 ^	NT
Allethrin	I	711				0.010 ^	NT
Ametoctradin	F	711				0.0012 ^	NT
Ametryn	H	711				0.0012 ^	NT
Amicarbazone	H	711				0.005 ^	0.01
Asulam	H	711				0.0012 ^	0.05
Atrazine	H	711				0.0012 ^	0.02
Azinphos ethyl	I	711				0.005 ^	NT
Azinphos methyl	I	711				0.005 ^	NT
Azinphos methyl oxygen analog	IM	711				0.0026 ^	NT
Azoxystrobin	F	711				0.0012 ^	0.006
Benalaxyl	F	711				0.010 ^	NT
Benazolin	H	622				0.050 ^	NT
Bendiocarb	I	711				0.0012 ^	SU
Benfluralin	H	711				0.005 ^	NT
Benoxacor	S	711				0.0026 ^	0.01
Bensulide	H	711				0.005 ^	NT
Bentazon	H	622				0.0026 ^	0.02
Bifenazate	A	711				0.0026 ^	0.02
Bifenox	H	711				0.010 ^	NT
Bifenthrin	I	711				0.0026 ^	0.1
Bitertanol	F	711				0.010 ^	NT
Boscalid	F	711				0.0026 ^	0.10
Bromacil	H	711				0.010 ^	NT
Bromopropylate	A	711				0.0026 ^	NT
Bromoxynil	H	622				0.010 ^	0.4
Bromuconazole	F	711				0.005 ^	NT
Bupirimate	F	711				0.0012 ^	NT
Buprofezin	I	711				0.0012 ^	0.01
Butylate	H	711				0.020 ^	NT
Cadusafos	I	711				0.0012 ^	NT
Carbaryl	I	711				0.0026 ^	1.0

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Carbendazim (MBC)	F	711				0.0012 ^	NT
Carbofuran	I	711				0.0012 ^	NT
Carbophenothion	I	711				0.010 ^	NT
Carboxin	F	711				0.0026 ^	0.05
Carfentrazone ethyl	H	711				0.0026 ^	0.05
Chlorantraniliprole	I	711				0.005 ^	0.1
Chlorethoxyfos	I	711				0.020 ^	NT
Chlorfenapyr	I	622				0.25 ^	0.01
Chlorfenvinphos total	I	711				0.0012 ^	NT
Chlorimuron ethyl	H	711				0.0026 ^	NT
Chlorobenzilate	A	711				0.0026 ^	NT
Chloroneb	F	711				0.005 ^	NT
Chlorothalonil	F	711				0.005 ^	0.1
Chlorpropham	H	711				0.0026 ^	0.30
Chlorpyrifos	I	711				0.0026 ^	0.01
Chlorpyrifos oxygen analog	IM	711				0.0012 ^	0.01
Chlorsulfuron	H	711				0.0012 ^	0.1
Clethodim	H	711				0.010 ^	0.05
Clofentezine	I	711				0.005 ^	0.01
Clomazone	H	679				0.0026 ^	NT
Cloransulam Methyl	H	711				0.0012 ^	NT
Clothianidin	I	711				0.0012 ^	0.01
Coumaphos	I	711				0.0012 ^	0.5 *
Coumaphos oxygen analog	IM	711				0.0012 ^	0.5 *
Crotoxyphos	I	711				0.0026 ^	NT
Crufomate	I	711				0.0026 ^	NT
Cyantraniliprole	I	711				0.0026 ^	0.20
Cyazofamid	F	711				0.010 ^	NT
Cyclanilide	P	622				0.020 ^	0.04
Cyflufenamid	F	711				0.0012 ^	NT
Cyflumetofen	A	711				0.0026 ^	NT
Cyfluthrin	I	711				0.010 ^	0.2
Cyhalothrin, Total [1]	I	679				0.010 ^	0.4
Cymoxanil	F	711				0.010 ^	NT
Cypermethrin	I	711				0.020 ^	0.10
Cyphenothrin	I	711				0.010 ^	NT
Cyproconazole	F	711				0.005 ^	0.02
Cyprodinil	F	711				0.005 ^	NT
Cyprosulfamide	S	711				0.0026 ^	NT
Cyromazine	R	711				0.005 ^	0.05
DCPA	H	711				0.0026 ^	NT
DEF (Tribufos)	H	711				0.0012 ^	0.01
Deltamethrin [2]	I	711				0.005 ^	0.02
Demeton-O	IM	711				0.010 ^	NT
Demeton-S	IM	711				0.010 ^	NT
Demeton-S sulfone	IM	711				0.0012 ^	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
Dialifos	I	711				0.005 ^	NT
Diazinon	I	711				0.0012 ^	NT
Diazinon oxygen analog	IM	711				0.0012 ^	NT
Dichlobenil	H	711				0.0012 ^	NT
Dichlormid	H	711				0.020 ^	NT
Dichlorprop	H	622				0.050 ^	NT
Dichlorvos (DDVP)	I	711				0.020 ^	0.02
Dicloran	F	711				0.020 ^	NT
Diclosulam	H	622				0.010 ^	NT
Dicofol o,p'	I	711				0.005 ^	0.75
Dicofol p,p'	I	711				0.005 ^	0.75
Dicrotophos	I	711				0.0012 ^	NT
Diethofencarb	F	711				0.0026 ^	NT
Difenoconazole	F	711				0.0026 ^	0.02
Diflubenzuron	I	711				0.0012 ^	0.05
Dimethenamid	H	711				0.0012 ^	NT
Dimethoate	I	711				0.0012 ^	0.002
Dimethomorph	F	711				0.0026 ^	NT
Diniconazole	F	711				0.005 ^	NT
Dinotefuran	I	711				0.0026 ^	0.05
Dioxacarb	I	711				0.0012 ^	NT
Dioxathion	I	711				0.005 ^	NT
Diphenamid	H	711				0.005 ^	NT
Diphenylamine (DPA)	F	711				0.0026 ^	0.01
Disulfoton	I	711				0.020 ^	NT
Disulfoton sulfone	IM	711				0.0012 ^	NT
Disulfoton sulfoxide	IM	711				0.0012 ^	NT
Diuron	H	711				0.010 ^	NT
DMST (4-dimethylaminosulphotosluidide)	FM	711				0.0026 ^	NT
Dodine	F	711				0.010 ^	NT
Emamectin	I	711				0.010 ^	0.003
Endosulfan I	IM	711				0.020 ^	2.0 *
Endosulfan II	IM	711				0.010 ^	2.0 *
Endosulfan sulfate	IM	711				0.010 ^	2.0 *
EPN	I	711				0.020 ^	NT
Epoxiconazole	F	711				0.0026 ^	NT
Esfenvalerate	I	679				0.005 ^	0.3
Ethalfluralin	H	711				0.010 ^	NT
Ethiofencarb	I	711				0.0026 ^	NT
Ethiofencarb sulfone	IM	711				0.0026 ^	NT
Ethiofencarb sulfoxide	IM	711				0.0012 ^	NT
Ethion	I	711				0.0012 ^	NT
Ethion mono oxon	IM	711				0.0012 ^	NT
Ethiprole	I	711				0.005 ^	NT
Ethofumesate	H	711				0.0026 ^	NT
Ethoprop	I	711				0.0012 ^	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
Ethylan	I	711				0.0026 ^	NT
Etofenprox	I	711				0.020 ^	0.60
Etoxazole	A	711				0.0012 ^	0.01 *
Etridiazole	F	711				0.040 ^	NT
Famoxadone	F	711				0.010 ^	0.06 *
Fenamidone	F	711				0.0012 ^	0.02
Fenamiphos	I	711				0.0012 ^	NT
Fenamiphos sulfone	IM	711				0.0012 ^	NT
Fenamiphos sulfoxide	IM	711				0.0026 ^	NT
Fenarimol	F	711				0.0026 ^	NT
Fenazaquin	I	711				0.0012 ^	NT
Fenbuconazole	F	711				0.0026 ^	NT
Fenchlorphos (Ronnel)	I	711				0.0026 ^	NT
Fenhexamid	F	711				0.010 ^	NT
Fenitrothion	I	711				0.005 ^	NT
Fenobucarb (BPMC)	I	711				0.0026 ^	NT
Fenoxaprop ethyl	H	711				0.0012 ^	0.02
Fenoxycarb	I	711				0.0012 ^	NT
Fenpropathrin	I	711				0.005 ^	0.08
Fenpropidin	F	711				0.040 ^	NT
Fenpropimorph	F	681				0.0012 ^	NT
Fenpyrazamine	F	711				0.020 ^	NT
Fenpyroximate	A	711				0.0012 ^	0.015
Fensulfothion	I	711				0.0012 ^	NT
Fenthion	I	711				0.0026 ^	NT
Fenthion sulfone	IM	711				0.020 ^	NT
Fenthion sulfoxide	IM	711				0.020 ^	NT
Fenuron	H	711				0.005 ^	NT
Fipronil	I	622				0.0026 ^	0.05
Fipronil sulfone (MB46136)	IM	622				0.0026 ^	0.05
Flazasulfuron	H	711				0.005 ^	NT
Flonicamid	I	711				0.010 ^	0.05
Fluazifop	H	622				0.050 ^	0.05
Fluazifop butyl	H	711				0.0012 ^	0.05
Fluazinam	F	622				0.0026 ^	NT
Flubendiamide	I	711	12	1.7	0.0046	0.0026 ^	0.15
Flucythrinate	I	679				0.010 ^	NT
Fludioxonil	F	711				0.010 ^	0.01
Flufenacet	H	711				0.010 ^	NT
Flufenoxuron	I	711				0.0012 ^	0.20
Flufenpyr ethyl	H	711				0.0012 ^	NT
Flumetsulam	H	711				0.0026 ^	NT
Flumiclorac pentyl	H	711				0.0012 ^	NT
Flumioxazin	H	711				0.020 ^	NT
Fluometuron	H	711				0.0026 ^	0.02
Fluopicolide	F	711				0.0012 ^	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
Fluopyram	F	711				0.0012 ^	0.40
Fluoxastrobin	F	711				0.0012 ^	0.03
Flupyradifurone	I	711				0.0012 ^	0.15
Fluquinconazole	F	711				0.0026 ^	NT
Fluridone	H	711				0.0012 ^	0.05
Fluroxypyr	HM	622				0.050 ^	0.3
Flusilazole	F	711				0.0012 ^	NT
Fluthiacet methyl	H	711				0.0026 ^	NT
Flutolanil	F	711				0.0012 ^	0.05
Flutriafol	F	711				0.0012 ^	0.02
Fluvalinate	I	679				0.010 ^	NT
Fluxapyroxad	F	711				0.0012 ^	0.01
Fomesafen	H	622				0.005 ^	NT
Fonofos	I	711				0.0026 ^	NT
Forchlorfenuron	P	711				0.0012 ^	NT
Formetanate hydrochloride	I	711				0.0012 ^	NT
Fosthiazate	T	711				0.0012 ^	NT
Furalaxyl	F	711				0.010 ^	NT
Halosulfuron methyl	H	711				0.020 ^	0.05
Haloxyfop	H	622				0.020 ^	NT
Heptenophos	I	711				0.010 ^	NT
Hexaconazole	F	711				0.005 ^	NT
Hexazinone	H	711				0.005 ^	11
Hexythiazox	I	711				0.0012 ^	0.05
Hydroprene	R	711				0.020 ^	0.2
Imazalil	F	711				0.0026 ^	0.02
Imazapic	H	622				0.005 ^	0.1
Imazaquin	H	622				0.010 ^	NT
Imazethapyr	H	622				0.020 ^	NT
Imazosulfuron	H	711				0.0026 ^	NT
Imidacloprid	I	711				0.0026 ^	0.10
Imiprothrin	I	711				0.010 ^	NT
Indaziflam	H	711				0.0012 ^	NT
Indoxacarb	I	711				0.005 ^	0.15
Ipconazole	F	711				0.0026 ^	NT
Iprodione	F	711				0.010 ^	0.5
Iprovalicarb	F	711				0.0026 ^	NT
Isocarbophos	I	711				0.010 ^	NT
Isofenphos	I	711				0.0026 ^	NT
Isofenphos methyl	IM	711				0.005 ^	NT
Isoprocarb	I	711				0.005 ^	NT
Isoproturon	H	711				0.0026 ^	NT
Isoxadifen ethyl	S	711				0.005 ^	NT
Kresoxim-methyl	F	711				0.005 ^	NT
Lactofen	H	711				0.0026 ^	NT
Lenacil	H	592				0.0026 ^	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
Leptophos oxygen analog	IM	711				0.0026 ^	NT
Linuron	H	711				0.0026 ^	0.05
Lufenuron	I	622				0.005 ^	NT
Malathion	I	711				0.0026 ^	0.5 *
Malathion oxygen analog	IM	711				0.0012 ^	0.5 *
Mandipropamid	F	711				0.0026 ^	NT
Mecarbam	I	711				0.020 ^	NT
Mecoprop (MCPP)	H	622				0.25 ^	NT
Mefenpyr diethyl	S	711				0.0026 ^	NT
Mepanipyrim	F	681				0.0012 ^	NT
Metaflumizone	I	711				0.010 ^	NT
Metalaxyl/Mefenoxam [3]	F	711				0.0012 ^	0.02
Metaldehyde	O	592				0.10 ^	NT
Metconazole	F	711				0.0026 ^	NT
Methamidophos	I	711				0.0012 ^	0.1
Methidathion	I	711				0.0026 ^	NT
Methiocarb	I	711				0.0012 ^	NT
Methiocarb sulfone	IM	711				0.0026 ^	NT
Methiocarb sulfoxide	IM	711				0.0012 ^	NT
Methomyl	I	711				0.010 ^	NT
Methoxychlor p,p'	IM	711				0.005 ^	NT
Methoxyfenozide	I	711				0.0026 ^	0.10
Metolachlor	H	711				0.0026 ^	0.02
Metolcarb	I	711				0.010 ^	NT
Metrafenone	F	711				0.0012 ^	NT
Metribuzin	H	711				0.005 ^	0.05
Metsulfuron methyl	H	711				0.0012 ^	0.05
Mevinphos Total	I	711				0.0026 ^	NT
MGK-264	I	711				0.005 ^	5
Monocrotophos	I	711				0.0026 ^	NT
Monolinuron	H	711				0.0012 ^	NT
Myclobutanil	F	711				0.0026 ^	0.2
Napropamide	H	711				0.005 ^	NT
Nicosulfuron	H	711				0.0012 ^	0.01
Nitrapyrin	N	711				0.020 ^	NT
Nitrofen	H	711				0.020 ^	NT
Norflurazon	H	711				0.0026 ^	0.1
Norflurazon desmethyl	HM	711				0.0026 ^	0.1
Novaluron	I	711				0.020 ^	1.0
Omethoate	IM	711				0.0012 ^	0.002
Oryzalin	H	622				0.020 ^	NT
Oxadiazon	H	711				0.0026 ^	NT
Oxadixyl	F	711				0.005 ^	NT
Oxamyl	I	711				0.005 ^	NT
Oxamyl oxime	IM	711				0.005 ^	NT
Oxydemeton methyl	I	711				0.0012 ^	0.01

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Oxydemeton methyl sulfone	IM	711				0.0012 ^	0.01
Oxyfluorfen	H	711				0.020 ^	0.01
Paclobutrazol	P	711				0.005 ^	NT
Parathion ethyl	I	711				0.005 ^	NT
Parathion methyl	I	711				0.020 ^	NT
Parathion methyl oxygen analog	IM	711				0.010 ^	NT
Parathion oxygen analog	IM	711				0.0026 ^	NT
Penconazole	F	711				0.0026 ^	NT
Pencycuron	F	711				0.0026 ^	NT
Pendimethalin	H	711				0.010 ^	0.04
Penflufen	F	711				0.0012 ^	NT
Penoxsulam	H	711				0.0012 ^	NT
Pentachloroaniline (PCA)	FM	711				0.0026 ^	NT
Pentachlorobenzene (PCB)	FM	711				0.005 ^	NT
Pentachlorophenyl methyl sulfide	FM	683				0.020 ^	NT
Penthiopyrad	F	711				0.0012 ^	0.02
Permethrin cis	IM	711				0.010 ^	3.0 *
Permethrin trans	IM	711				0.010 ^	3.0 *
Phenothrin	I	683				0.005 ^	0.01
Phenthoate	I	711				0.0012 ^	NT
Phorate	I	711				0.020 ^	NT
Phorate oxygen analog	IM	711				0.005 ^	NT
Phorate oxygen analog sulfone	IM	711				0.0012 ^	NT
Phorate oxygen analog sulfoxide	IM	711				0.0012 ^	NT
Phorate sulfone	IM	711				0.0026 ^	NT
Phorate sulfoxide	IM	711				0.0012 ^	NT
Phosalone	I	711				0.0026 ^	NT
Phosmet	I	711				0.0012 ^	0.1
Phosmet oxygen analog	IM	711				0.0012 ^	0.1
Phosphamidon	I	711				0.005 ^	NT
Phoxim	I	711				0.0012 ^	NT
Picoxystrobin	F	711				0.005 ^	0.01
Pinoxaden	H	653				0.020 ^	0.02
Piperonyl butoxide	I	711				0.010 ^	10
Pirimicarb	I	711				0.0012 ^	NT
Pirimicarb desmethyl	IM	711				0.0012 ^	NT
Pirimiphos methyl	I	711				0.0012 ^	NT
Pirimiphos-ethyl	I	711				0.0012 ^	NT
Prallethrin	I	711				0.020 ^	1.0
Primisulfuron methyl	H	622				0.005 ^	0.02
Prochloraz	F	711				0.005 ^	NT
Procymidone	F	711				0.005 ^	NT
Profenofos	I	711				0.005 ^	0.01
Profluralin	H	711				0.020 ^	NT
Profoxydim	H	711				0.0026 ^	NT
Promecarb	I	711				0.0012 ^	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
Prometryn	H	711				0.0012 ^	NT
Pronamide	H	711				0.0026 ^	0.02
Propachlor	H	711				0.0012 ^	0.02
Propamocarb	F	711				0.0012 ^	NT
Propanil	H	711				0.010 ^	0.05
Propaquizafop	H	711				0.0012 ^	NT
Propargite	I	711				0.0012 ^	0.08
Propetamphos	I	711				0.005 ^	NT
Propham	H	711				0.0026 ^	NT
Propiconazole	F	711				0.005 ^	0.05
Proquinazid	F	711				0.010 ^	NT
Prosulfuron	H	711				0.0026 ^	NT
Prothiofos	I	711				0.005 ^	NT
Pymetrozine	I	711				0.0012 ^	NT
Pyraclostrobin	F	711				0.0012 ^	0.1
Pyraflufen	HM	622				0.020 ^	0.03
Pyraflufen ethyl	H	711				0.0012 ^	0.03
Pyrasulfotole	H	474				0.005 ^	0.03
Pyrazon	H	711				0.0012 ^	0.02
Pyrazophos	F	711				0.0012 ^	NT
Pyridaben	I	711				0.0012 ^	0.01
Pyridalyl	I	621				0.040 ^	NT
Pyrimethanil	F	711				0.005 ^	0.05
Pyriproxyfen	I	711				0.0012 ^	0.10
Pyroxasulfone	H	711				0.0026 ^	0.003
Quinalphos	I	711				0.0012 ^	NT
Quinoxyfen	F	711				0.0012 ^	NT
Quintozene (PCNB)	F	711				0.005 ^	NT
Quizalofop	HM	622				0.050 ^	0.01
Quizalofop ethyl	H	711				0.0012 ^	0.01
Resmethrin	I	711				0.0026 ^	3.0
Rimsulfuron	H	711				0.0026 ^	NT
Rotenone	I	711				0.0026 ^	NT
Saflufenacil	H	711				0.0026 ^	0.01
Sedaxane	F	711				0.005 ^	NT
Sethoxydim	H	711				0.0026 ^	0.5
Simazine	H	711				0.0012 ^	0.03
Spinetoram	I	711				0.010 ^	0.30
Spinosad	I	711				0.0026 ^	7.0
Spirodiclofen	A	711				0.0026 ^	0.01
Spiromesifen	I	711				0.0026 ^	0.01
Spiromesifen alcohol	IM	711				0.0012 ^	0.01
Spirotetramat	I	711				0.0012 ^	0.01
Spiroxamine	F	711				0.0012 ^	NT
Sulfallate	H	711				0.005 ^	NT
Sulfentrazone	H	711				0.010 ^	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
Sulfometuron methyl	H	711				0.010 ^	NT
Sulfosulfuron	H	711				0.005 ^	0.02
Sulfoxaflor	I	711				0.0026 ^	0.15
Sulprofos	I	711				0.0026 ^	NT
TCMTB	F	711				0.005 ^	NT
Tebuconazole	F	711				0.005 ^	0.1
Tebufenozide	I	711				0.005 ^	0.04
Tebufenpyrad	I	711				0.0012 ^	NT
Tebuthiuron	H	711				0.0012 ^	0.8
Tecnazene	P	711				0.010 ^	NT
Teflubenzuron	I	622				0.005 ^	NT
Tefluthrin	I	711				0.005 ^	NT
Tepraloxydim	H	711				0.010 ^	0.10
Terbacil	H	711				0.005 ^	NT
Terbufos	I	711				0.0026 ^	NT
Terbufos oxygen analog sulfone	IM	711				0.010 ^	NT
Terbufos sulfone	IM	711				0.005 ^	NT
Terbufos sulfoxide	IM	711				0.0026 ^	NT
Terbuthylazine	H	711				0.0012 ^	NT
Tetrachlorvinphos	I	711				0.0012 ^	0.05 *
Tetraconazole	F	711				0.005 ^	0.03
Tetradifon	I	711				0.010 ^	NT
Tetrahydrophthalimide (THPI)	FM	711				0.020 ^	0.10
Tetramethrin	I	711				0.005 ^	NT
Thiabendazole	F	681				0.0012 ^	0.1
Thiacloprid	I	711				0.0012 ^	0.030
Thiamethoxam	I	711				0.0012 ^	0.02
Thiazopyr	H	711				0.0026 ^	NT
Thidiazuron	P	711				0.005 ^	0.05
Thiencarbazone methyl	H	711				0.020 ^	0.02
Thifensulfuron methyl	H	711				0.0012 ^	NT
Thiobencarb	H	711				0.0026 ^	0.05
Thiodicarb	I	711				0.010 ^	NT
Thionazin	I	711				0.0026 ^	NT
Tolclofos methyl	F	711				0.005 ^	NT
Tolfenpyrad	I	711				0.005 ^	0.03
Tri Allate	H	711				0.005 ^	NT
Triadimefon	F	711				0.0026 ^	NT
Triadimenol	F	711				0.020 ^	NT
Triasulfuron	H	711				0.0012 ^	0.02
Triazophos	I	711				0.0012 ^	NT
Tribenuron methyl	H	711				0.0012 ^	NT
Trichlorfon	I	711				0.0026 ^	NT
Triclopyr	H	622				0.25 ^	0.60
Tricyclazole	F	711				0.0012 ^	NT
Trifloxystrobin	F	711				0.0012 ^	0.02

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Trifloxysulfuron	H	711				0.0012 ^	NT
Triflumizole	F	711				0.0026 ^	NT
Trifluralin	H	711				0.010 ^	NT
Triforine	F	592				0.10 ^	NT
Triticonazole	F	711				0.005 ^	NT
Uniconazole	R	711				0.005 ^	NT
Vinclozolin	F	711				0.005 ^	0.05
Zoxamide	F	711				0.0012 ^	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 2017 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.

* = Measured on a fat basis for milk.

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.

1 = Includes cyhalothrin lambda plus R157836 epimer.

2 = Includes parent Tralomethrin.

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.

Pesticide Types:

A = Acaricide
F = Fungicide, FM = Fungicide Metabolite
H = Herbicide, HM = Herbicide Metabolite
I = Insecticide, IM = Insecticide Metabolite
N = Nitrification Inhibitor
O = Molluscicide
P = Plant Growth Regulator
R = Insect Growth Regulator
S = Herbicide Safener
T = Nematicide

Appendix E

Distribution of Residues by Pesticide in Bottled Water

Appendix E shows residue detections for all compounds tested in bottled water, including range of values detected and range of Limits of Detection (LODs) for each pair. The U.S. Food and Drug Administration (FDA) Standards of Quality (SOQ) values for bottled water are also shown.

In 2017, PDP analyzed 756 bottled water samples. PDP detected 10 different residues (including metabolites), representing 7 pesticides, in the bottled water samples. All detections were well below established FDA SOQs.

Bottled water is regulated by the FDA and State regulatory agencies for the same list of pesticides currently regulated in public drinking water by EPA. The Safe Drinking Water Act amendments of 1996 require that FDA consider applicability of all EPA MCLs and monitoring for bottled water. FDA has adopted EPA's MCLs for municipal water systems as its SOQs for bottled water. The SOQ values can be referenced in the Code of Federal Regulations (CFR), Title 21, Part 165.110.

FDA SOQ values are expressed in parts per million (ppm) in the CFR. Because bottled water residues are expressed in parts per trillion (ppt) in the PDP data, the FDA SOQ 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 FDA.

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

APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN BOTTLED WATER

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt [1]
2,4-D	H	735				6.8 - 45	70,000
3-Hydroxycarbofuran	IM	735				9.0 ^	
Acetamiprid	I	756				6.8 ^	
Acetochlor	H	756				6.8 ^	
Acetochlor ethanesulfonic acid (ESA)	HM	756	1	0.1	10.5 ^	6.3 ^	
Acibenzolar S methyl	L	735				93.8 ^	
Alachlor	H	756				11.2 ^	2,000
Alachlor ethanesulfonic acid (ESA)	HM	756	49	6.5	11.3 - 128	6.8 ^	
Ametoctradin	F	756				6.8 ^	
Atrazine	H	756	5	0.7	11.3 - 36	6.8 ^	3,000
Azinphos methyl	I	756				45 ^	
Azoxystrobin	F	756				6.8 ^	
Bendiocarb	I	756				6.8 ^	
Benoxacor	S	756				6.8 ^	
Bifenthrin	I	756				22.5 ^	
Boscalid	F	756				6.8 ^	
Buprofezin	I	756				6.8 ^	
Carbaryl	I	756				6.8 ^	
Carbendazim (MBC)	F	756				6.8 ^	
Carbofuran	I	756				6.8 ^	40,000
Carbophenothion	I	756				6.8 ^	
Carfentrazone ethyl	H	756				112.5 ^	
Chlorantraniliprole	I	756				11.2 ^	
Chlorfenapyr	I	756				16.9 ^	
Chlorfenvinphos total	I	756				11.2 ^	
Chlorpropham	H	756				6.8 - 22.5	
Chlorpyrifos	I	756				6.8 ^	
Chlorpyrifos oxygen analog	IM	756				6.8 ^	
Clomazone	H	756				16.9 ^	
Clothianidin	I	756				37.5 ^	
Coumaphos	I	756				11.2 ^	
Coumaphos oxygen analog	IM	756				22.5 ^	
Cyantraniliprole	I	756				16.9 ^	
Cyazofamid	F	756				45 ^	
Cyfluthrin	I	756				187.5 ^	
Cyhalothrin Total [2]	I	756				22.5 ^	
Cymoxanil	F	756				22.5 ^	
Cypermethrin	I	756				168.8 ^	
DCPA	H	756				6.8 ^	
Deltamethrin [3]	I	756				90 ^	
Desethyl atrazine	HM	756	22	2.9	11.3 - 36	6.8 ^	
Desethyl-desisopropyl atrazine	HM	756				22.5 ^	
Desisopropyl atrazine	HM	756	1	0.1	11.3 ^	6.8 ^	
Diazinon	I	714				6.8 ^	

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt [1]
Dichlobenil	H	756				6.8 ^	
Dichlorvos (DDVP)	I	756				11.2 ^	
Dicofol p,p'	I	756				6.8 ^	
Dicrotophos	I	756				6.8 ^	
Difenoconazole	F	756				22.5 ^	
Dimethenamid	H	756				22.5 ^	
Dimethoate	I	714				18 ^	
Dimethomorph	F	756				6.8 ^	
Dinotefuran	I	756				45 ^	
Diphenamid	H	756				56.3 ^	
Disulfoton sulfone	IM	756				6.8 ^	
Disulfoton sulfone oxygen analog	IM	756				6.8 ^	
Disulfoton sulfoxide	IM	756				6.8 ^	
Disulfoton sulfoxide oxygen analog	IM	756				6.8 ^	
Diuron	H	756				93.8 ^	
Emamectin benzoate	I	756				6.8 ^	
Endosulfan I	IM	756				33.8 ^	
Endosulfan II	IM	756				9.0 ^	
Endosulfan sulfate	IM	756				39.4 ^	
EPTC	H	756				6.8 ^	
Esfenvalerate+Fenvalerate Total	I	756				56.3 ^	
Ethalfluralin	H	756				16.9 ^	
Ethion mono oxon	IM	756				6.8 ^	
Ethoprop	I	756				6.8 ^	
Etofenprox	I	756				37.5 ^	
Fenamiphos	I	735				6.8 ^	
Fenamiphos sulfone	IM	756				11.2 ^	
Fenamiphos sulfoxide	IM	756				11.2 ^	
Fenarimol	F	756				56.3 ^	
Fenbuconazole	F	756				6.8 ^	
Fenitrothion	I	756				16.9 ^	
Fenpropathrin	I	756				16.9 ^	
Fipronil	I	756				6.8 ^	
Flonicamid	I	756				6.8 ^	
Fluazifop butyl	H	756				6.8 ^	
Fludioxonil	F	756				45 ^	
Flumioxazin	H	756				37.5 ^	
Fluopicolide	F	756				6.8 ^	
Fluoxastrobin	F	756				6.8 ^	
Fluridone	H	756				6.8 ^	
Fluxapyroxad	F	756				6.8 ^	
Fonofos	I	756				6.8 ^	
Imazalil	F	756				6.8 ^	
Imidacloprid	I	756	1	0.1	34 ^	6.8 ^	
Kresoxim-methyl	F	756				11.2 ^	
Linuron	H	756				11.2 ^	

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt [1]
Malathion	I	756				6.8 ^	
Malathion oxygen analog	IM	756				11.2 ^	
Mandipropamid	F	756				22.5 ^	
Metalaxyl/Mefenoxam [4]	F	756				30 ^	
Methidathion	I	756				6.8 - 22.5	
Methomyl	I	756				18 ^	
Methoprene	R	756				112.5 ^	
Methoxychlor olefin	IM	756				6.8 ^	
Methoxychlor Total	I	756				6.8 - 45	40,000
Methoxyfenozide	I	756				6.8 ^	
Metolachlor	H	756	1	0.1	47 ^	6.8 ^	
Metolachlor ethanesulfonic acid (ESA)	HM	756	29	3.8	11.3 - 153	6.8 ^	
Mevinphos Total	I	756				11.2 ^	
MGK-264	I	756				11.2 ^	
Myclobutanil	F	756				6.8 ^	
Napropamide	H	756				37.5 ^	
Norflurazon	H	756				6.8 ^	
Norflurazon desmethyl	HM	756				6.8 ^	
Oxadixyl	F	756				22.5 ^	
Oxamyl	I	756				45 ^	
Oxyfluorfen	H	756				6.8 ^	
Parathion ethyl	I	756				22.5 ^	
Parathion methyl	I	756				18 ^	
Parathion methyl oxygen analog	IM	756				6.8 ^	
Parathion oxygen analog	IM	756				6.8 ^	
Pendimethalin	H	756				6.8 ^	
Penthiopyrad	F	756				6.8 ^	
Permethrin cis	IM	756				6.8 ^	
Permethrin trans	IM	756				9.0 ^	
Phenothrin	I	756				16.9 ^	
Phenthoate	I	756				9.0 ^	
Phorate sulfone	IM	756				11.2 ^	
Phorate sulfoxide	IM	756				22.5 ^	
Phosalone	I	756				11.2 ^	
Phosphamidon	I	756				6.8 ^	
Piperonyl butoxide	I	756				37.5 ^	
Pirimicarb	I	756				6.8 ^	
Pirimiphos methyl	I	756				6.8 ^	
Profenofos	I	756				6.8 ^	
Prometon	H	756				6.8 ^	
Prometryn	H	756				6.8 ^	
Propachlor	H	756				22.5 ^	
Propetamphos	I	756				6.8 ^	
Propiconazole	F	756				33.8 ^	
Pyraclostrobin	F	756				6.8 ^	
Pyrimethanil	F	756				6.8 ^	

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt [1]
Pyriproxyfen	I	756				16.9 ^	
Quinoxyfen	F	756				9.0 ^	
Quintozene (PCNB)	F	756				6.8 ^	
Resmethrin cis	IM	756				56.3 ^	
Resmethrin trans	IM	756				56.3 ^	
Simazine	H	756	1	0.1	11.3 ^	6.8 ^	4,000
Spinetoram	I	756				6.8 ^	
Spinosad	I	756				6.8 ^	
Spiromesifen Total [5]	I	756				16.9 ^	
Spirotetramat	I	756				11.2 ^	
Sulfoxaflor	I	756				30 ^	
Tebuconazole	F	756				6.8 ^	
Tebufenozide	I	756				11.2 ^	
Tebupirimfos	I	756				6.8 ^	
Tebuthiuron	H	756	1	0.1	11.3 ^	6.8 ^	
Tecnazene	P	756				6.8 ^	
Tefluthrin	I	756				22.5 ^	
Terbacil	H	756				22.5 ^	
Terbufos sulfone	IM	756				6.8 ^	
Tetrachlorvinphos	I	756				11.2 ^	
Tetraconazole	F	756				6.8 ^	
Tetradifon	I	756				16.9 ^	
Thiabendazole	F	756				6.8 ^	
Thiacloprid	I	756				6.8 ^	
Thiamethoxam	I	756				11.2 - 37.5	
Thiobencarb	H	756				22.5 ^	
Triadimefon	F	756				6.8 ^	
Trifloxystrobin	F	756				6.8 ^	
Trifluralin	H	756				6.8 ^	
Vinclozolin	F	756				6.8 ^	

NOTES

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

1 = FDA Standards of Quality (SOQ) 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 FDA.

2 = Includes cyhalothrin lambda plus R157836 epimer.

3 = Includes parent Tralomethrin.

4 = 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.

5 = Includes parent Spiromesifen plus enol metabolite.

Pesticide Types:

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

Appendix F

Distribution of Residues for Environmental Contaminants

Appendix F shows residue detections across all commodities for 21 compounds identified as environmental contaminants, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerances or Action Levels for each pair. Results for environmental contaminants have been consolidated in this appendix because they have no registered uses and are not applied to crops.

The EPA tolerances cited in this summary and appendixes apply to 2017 and not to the current year. There may be instances where tolerances have been recently set, modified 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 AL values established by the U.S. Food and Drug Administration (FDA). Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of ALs has been transferred to EPA. In the interim, ALs are used.

APPENDIX F. 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)						
Applesauce	570	0			0.003 ^	0.03 AL
Asparagus	354	0			0.003 ^	0.03 AL
Cabbage	354	0			0.005 ^	0.03 AL
Cranberries	311	0			0.005 ^	0.05 AL
Cranberries, Frozen	428	0			0.005 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.05 AL
Grapefruit	526	0			0.010 ^	0.02 AL
Kale	708	0			0.002 ^	0.05 AL
Lettuce	378	0			0.003 ^	0.03 AL
Mangoes	177	0			0.001 - 0.010	0.03 AL
Milk	711	0			0.010 ^	0.3 AL *
Olives, Canned	754	0			0.001 - 0.010	0.05 AL
Onions	708	0			0.001 - 0.005	0.1 AL
Pineapple, Canned	726	0			0.005 - 0.040	0.03 AL
Plums, Dried / Prunes	191	0			0.003 ^	0.03 AL
Snap Peas	710	0			0.002 ^	0.03 AL
Sweet Potatoes	701	0			0.045 ^	0.1 AL
Tomatoes, Canned	566	0			0.001 ^	0.05 AL
TOTAL	**9,440**	**0**				
BHC alpha (insecticide) (isomer of BHC)						
Applesauce	570	0			0.012 ^	0.05 AL
Asparagus	354	0			0.012 ^	0.05 AL
Cabbage	354	0			0.005 ^	0.05 AL
Cranberries	311	0			0.010 ^	0.05 AL
Cranberries, Frozen	428	0			0.010 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.05 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.05 AL
Grapefruit	526	0			0.003 - 0.005	0.05 AL
Kale	708	0			0.001 ^	0.05 AL
Lettuce	378	0			0.012 ^	0.05 AL
Mangoes	177	0			0.001 - 0.010	0.05 AL
Milk	711	0			0.0026 ^	0.3 AL *
Olives, Canned	754	0			0.001 - 0.003	0.05 AL
Onions	708	0			0.001 - 0.005	0.05 AL
Pineapple, Canned	726	0			0.005 - 0.010	0.05 AL
Plums, Dried / Prunes	191	0			0.012 ^	0.05 AL
Sweet Potatoes	701	0			0.010 ^	0.05 AL
Tomatoes, Canned	566	0			0.001 ^	0.05 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**9,486**	**0**				
BHC beta (isomer of BHC)						
Applesauce	570	0			0.014 ^	0.05 AL
Asparagus	354	0			0.014 ^	0.05 AL
Cabbage	354	0			0.005 ^	0.05 AL
Cranberries	311	0			0.005 ^	0.05 AL
Cranberries, Frozen	428	0			0.005 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.05 AL
Grapefruit	526	0			0.003 - 0.010	0.05 AL
Kale	708	0			0.004 ^	0.05 AL
Lettuce	378	0			0.014 ^	0.05 AL
Mangoes	177	0			0.001 - 0.005	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
Milk	711	0			0.0026 ^	0.3 AL *
Olives, Canned	754	0			0.001 - 0.003	0.05 AL
Onions	348	0			0.005 ^	0.05 AL
Pineapple, Canned	397	0			0.005 ^	0.05 AL
Plums, Dried / Prunes	191	0			0.014 ^	0.05 AL
TOTAL	**6,585**	**0**				
BHC delta (isomer of BHC)						
Grapefruit	271	0			0.005 ^	0.05 AL
Mangoes	90	0			0.001 - 0.005	0.05 AL
Milk	711	0			0.005 ^	0.3 AL *
Olives, Canned	754	0			0.001 - 0.005	0.05 AL
TOTAL	**1,826**	**0**				
Chlordane cis (isomer of Chlordane)						
Applesauce	570	0			0.010 ^	0.1 AL
Asparagus	354	0			0.010 ^	0.1 AL
Cabbage	354	0			0.005 ^	0.1 AL
Cranberries	311	0			0.010 ^	NT
Cranberries, Frozen	428	0			0.010 ^	NT
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.1 AL
Grapefruit	526	0			0.005 - 0.025	0.1 AL
Kale	708	8	1.1	0.002 ^	0.001 ^	0.1 AL
Lettuce	378	0			0.010 ^	0.1 AL
Mangoes	177	0			0.001 - 0.010	NT
Milk	711	0			0.005 ^	NT
Olives, Canned	754	0			0.001 - 0.005	0.1 AL
Onions	708	0			0.001 - 0.005	0.1 AL
Pineapple, Canned	726	0			0.005 - 0.010	0.1 AL
Plums, Dried / Prunes	191	0			0.010 ^	0.1 AL
Sweet Potatoes	701	0			0.010 ^	0.1 AL
Tomatoes, Canned	566	0			0.001 ^	0.1 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**9,486**	**8**				
Chlordane trans (isomer of Chlordane)						
Applesauce	570	0			0.010 ^	0.1 AL
Asparagus	354	0			0.010 ^	0.1 AL
Cabbage	354	0			0.005 ^	0.1 AL
Cranberries	311	0			0.005 ^	NT
Cranberries, Frozen	428	0			0.005 ^	NT
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.1 AL
Grapefruit	526	0			0.005 - 0.010	0.1 AL
Kale	708	3	0.4	0.002 ^	0.001 ^	0.1 AL
Lettuce	378	0			0.010 ^	0.1 AL
Mangoes	177	0			0.001 - 0.005	NT
Milk	711	0			0.005 ^	NT
Olives, Canned	754	0			0.001 - 0.005	0.1 AL
Onions	708	0			0.001 - 0.005	0.1 AL
Pineapple, Canned	726	0			0.005 - 0.010	0.1 AL
Plums, Dried / Prunes	191	0			0.010 ^	0.1 AL
Sweet Potatoes	701	0			0.010 ^	0.1 AL
Tomatoes, Canned	566	1	0.2	0.004 ^	0.001 ^	0.1 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**9,486**	**4**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
DDD o,p' (metabolite of DDT)						
Applesauce	570	0			0.001 ^	0.1 AL
Asparagus	354	0			0.001 ^	0.5 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.2 AL
Grapefruit	271	0			0.001 ^	0.1 AL
Lettuce	378	0			0.001 ^	0.5 AL
Mangoes	90	0			0.001 ^	0.2 AL
Milk	711	0			0.0012 ^	1.25 AL *
Olives, Canned	722	0			0.001 ^	0.1 AL
Onions	360	0			0.001 ^	0.2 AL
Plums, Dried / Prunes	191	0			0.001 ^	0.2 AL
Tomatoes, Canned	566	0			0.001 ^	0.05 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**5,158**	**0**				
DDD p,p' (metabolite of DDT)						
Applesauce	570	0			0.005 ^	0.1 AL
Asparagus	354	0			0.005 ^	0.5 AL
Cabbage	354	0			0.005 ^	0.5 AL
Cranberries	311	0			0.005 ^	0.1 AL
Cranberries, Frozen	428	0			0.005 ^	0.1 AL
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.2 AL
Grapefruit	255	0			0.025 ^	0.1 AL
Lettuce	378	0			0.005 ^	0.5 AL
Mangoes	87	0			0.005 ^	0.2 AL
Onions	708	0			0.001 - 0.005	0.2 AL
Pineapple, Canned	726	0			0.005 ^	0.2 AL
Plums, Dried / Prunes	191	0			0.005 ^	0.2 AL
Sweet Potatoes	701	0			0.005 ^	1 AL
Tomatoes, Canned	545	0			0.001 ^	0.05 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**6,931**	**0**				
DDE o,p' (metabolite of DDT)						
Applesauce	570	0			0.001 ^	0.1 AL
Asparagus	354	0			0.001 ^	0.5 AL
Grapefruit	271	0			0.005 ^	0.1 AL
Kale	708	1	0.1	0.009 ^	0.002 ^	0.5 AL
Lettuce	378	0			0.001 ^	0.5 AL
Mangoes	90	0			0.001 - 0.005	0.2 AL
Milk	711	0			0.005 ^	1.25 AL *
Olives, Canned	754	0			0.001 - 0.005	0.1 AL
Plums, Dried / Prunes	191	0			0.001 ^	0.2 AL
Snap Peas	710	0			0.002 ^	0.2 AL
TOTAL	**4,737**	**1**				
DDE p,p' (metabolite of DDT)						
Applesauce	475	0			0.010 ^	0.1 AL
Asparagus	354	0			0.010 ^	0.5 AL
Cabbage	354	0			0.005 ^	0.5 AL
Cranberries	311	0			0.005 ^	0.1 AL
Cranberries, Frozen	428	0			0.005 ^	0.1 AL
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.2 AL
Grapefruit	526	0			0.001 - 0.010	0.1 AL
Honey	315	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
Kale	708	276	39	0.002 - 0.050	0.001 ^	0.5 AL
Lettuce	347	0			0.010 ^	0.5 AL
Mangoes	177	0			0.001 - 0.005	0.2 AL
Milk	711	1	0.1	0.0015 ^	0.0012 ^	1.25 AL *
Olives, Canned	691	0			0.001 ^	0.1 AL
Onions	708	0			0.001 - 0.005	0.2 AL
Pineapple, Canned	726	0			0.005 ^	0.2 AL
Plums, Dried / Prunes	191	0			0.010 ^	0.2 AL
Snap Peas	710	11	1.5	0.002 ^	0.001 ^	0.2 AL
Sweet Potatoes	701	1	0.1	0.006 ^	0.005 ^	1 AL
Tomatoes, Canned	566	0			0.001 ^	0.05 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**10,322**	**289**				
DDT o,p' (insecticide)						
Garbanzo Beans, Canned	189	0			0.001 - 0.003	0.2 AL
Grapefruit	271	0			0.005 ^	0.1 AL
Kale	708	64	9	0.002 - 0.006	0.001 ^	0.5 AL
Mangoes	90	0			0.001 - 0.005	0.2 AL
Milk	711	0			0.005 ^	1.25 AL *
Olives, Canned	754	0			0.001 - 0.005	0.1 AL
Onions	360	0			0.001 ^	0.2 AL
Snap Peas	710	0			0.001 ^	0.2 AL
Tomatoes, Canned	566	0			0.001 ^	0.05 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**5,115**	**64**				
DDT p,p' (insecticide)						
Applesauce	570	0			0.001 ^	0.1 AL
Asparagus	264	0			0.001 ^	0.5 AL
Cabbage	354	0			0.005 ^	0.5 AL
Cucumbers	335	0			0.005 ^	0.1 AL
Grapefruit	271	0			0.005 ^	0.1 AL
Kale	708	48	6.8	0.003 - 0.007	0.002 ^	0.5 AL
Lettuce	378	1	0.3	0.002 ^	0.001 ^	0.5 AL
Mangoes	90	0			0.001 - 0.005	0.2 AL
Milk	711	0			0.005 ^	1.25 AL *
Olives, Canned	754	0			0.001 - 0.005	0.1 AL
Onions	708	0			0.001 - 0.030	0.2 AL
Pineapple, Canned	726	0			0.005 - 0.075	0.2 AL
Plums, Dried / Prunes	191	0			0.001 ^	0.2 AL
Snap Peas	710	0			0.002 ^	0.2 AL
Sweet Potatoes	701	0			0.075 ^	1 AL
Tomatoes, Canned	566	0			0.001 - 0.003	0.05 AL
Water, Bottled	756	0			6.8 - 22.5 (ppt)	
TOTAL	**8,793**	**49**				
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Applesauce	570	0			0.010 ^	0.03 AL
Asparagus	354	0			0.010 ^	0.03 AL
Cabbage	354	0			0.005 ^	0.03 AL
Cranberries	311	0			0.025 ^	0.05 AL
Cranberries, Frozen	428	0			0.025 ^	0.05 AL
Cucumbers	378	1	0.3	0.007 ^	0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.002 ^	0.05 AL
Grapefruit	526	0			0.020 - 0.025	0.02 AL
Kale	708	78	11	0.003 - 0.019	0.002 ^	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
Lettuce	378	0			0.010 ^	0.03 AL
Mangoes	177	0			0.003 - 0.025	0.03 AL
Milk	711	0			0.020 ^	0.3 AL *
Olives, Canned	723	0			0.003 - 0.020	0.05 AL
Onions	708	0			0.002 - 0.005	0.1 AL
Pineapple, Canned	726	0			0.005 - 0.040	0.03 AL
Plums, Dried / Prunes	191	0			0.010 ^	0.03 AL
Snap Peas	710	0			0.002 ^	0.03 AL
Sweet Potatoes	701	0			0.045 ^	0.1 AL
Tomatoes, Canned	566	0			0.002 ^	0.05 AL
Water, Bottled	756	0			16.9 ^ (ppt)	
TOTAL	**10,165**	**79**				
Endrin (insecticide)						
Applesauce	570	0			0.010 ^	0.03 AL
Asparagus	354	0			0.010 ^	0.03 AL
Cabbage	354	0			0.005 ^	0.03 AL
Cranberries	311	0			0.005 ^	0.05 AL
Cranberries, Frozen	428	0			0.005 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	189	0			0.005 ^	0.05 AL
Grapefruit	526	0			0.010 - 0.030	0.02 AL
Kale	708	2	0.3	0.003 ^	0.002 ^	0.05 AL
Lettuce	378	0			0.010 ^	0.03 AL
Mangoes	177	0			0.003 - 0.010	0.03 AL
Milk	711	0			0.010 ^	0.3 AL *
Olives, Canned	754	0			0.003 - 0.010	0.05 AL
Onions	708	0			0.005 ^	0.1 AL
Pineapple, Canned	726	0			0.005 - 0.035	0.03 AL
Plums, Dried / Prunes	191	0			0.010 ^	0.03 AL
Snap Peas	710	0			0.002 ^	0.03 AL
Sweet Potatoes	701	0			0.035 ^	0.1 AL
Tomatoes, Canned	566	0			0.005 ^	0.05 AL
Water, Bottled	756	0			39.4 ^ (ppt)	
TOTAL	**10,196**	**2**				
Heptachlor (insecticide)						
Applesauce	570	0			0.002 ^	0.01 AL
Asparagus	354	0			0.002 ^	0.05 AL
Cabbage	354	0			0.005 ^	0.05 AL
Cranberries	311	0			0.001 ^	0.05 AL
Cranberries, Frozen	428	0			0.001 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.05 AL
Garbanzo Beans, Canned	189	0			0.001 ^	0.05 AL
Grapefruit	526	0			0.005 ^	0.05 AL
Kale	708	0			0.001 ^	0.05 AL
Lettuce	378	0			0.002 ^	0.05 AL
Mangoes	177	0			0.001 - 0.005	NT
Milk	711	0			0.005 ^	0.1 AL *
Olives, Canned	754	0			0.001 - 0.005	0.01 AL
Onions	708	0			0.001 - 0.005	0.01 AL
Pineapple, Canned	726	0			0.005 - 0.10	0.02 AL
Plums, Dried / Prunes	191	0			0.002 ^	0.05 AL
Sweet Potatoes	701	0			0.10 ^	0.01 AL
Tomatoes, Canned	566	0			0.001 ^	0.01 AL
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**9,486**	**0**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Heptachlor epoxide (metabolite of Heptachlor)						
Applesauce	570	0			0.005 ^	0.01 AL
Asparagus	354	0			0.005 ^	0.05 AL
Cabbage	354	0			0.005 ^	0.05 AL
Cranberries	311	0			0.001 ^	0.05 AL
Cranberries, Frozen	428	0			0.001 ^	0.05 AL
Cucumbers	378	0			0.005 ^	0.05 AL
Garbanzo Beans, Canned	189	0			0.002 ^	0.05 AL
Grapefruit	526	0			0.010 ^	0.05 AL
Lettuce	378	0			0.005 ^	0.05 AL
Mangoes	177	0			0.001 - 0.010	NT
Milk	711	0			0.010 ^	0.1 AL *
Olives, Canned	754	0			0.003 - 0.010	0.01 AL
Onions	708	0			0.002 - 0.005	0.01 AL
Pineapple, Canned	726	0			0.005 - 0.040	0.02 AL
Plums, Dried / Prunes	191	0			0.005 ^	0.05 AL
Sweet Potatoes	701	0			0.040 ^	0.01 AL
Tomatoes, Canned	566	0			0.002 ^	0.01 AL
Water, Bottled	756	0			16.9 ^ (ppt)	
TOTAL	**8,778**	**0**				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Kale	708	0			0.003 ^	0.05 AL
TOTAL	**708**	**0**				
Hexachlorobenzene - HCB (metabolite and impurity of Quintozene)						
Cabbage	354	0			0.005 ^	0.1
Cranberries	311	0			0.005 ^	NT
Cranberries, Frozen	428	0			0.005 ^	NT
Cucumbers	378	0			0.005 ^	NT
Grapefruit	526	0			0.003 - 0.050	NT
Kale	708	0			0.001 ^	0.2
Mangoes	177	0			0.001 - 0.005	NT
Milk	711	0			0.0026 ^	NT
Olives, Canned	754	0			0.001 - 0.003	NT
Onions	348	0			0.005 ^	NT
Pineapple, Canned	397	0			0.005 ^	NT
TOTAL	**5,092**	**0**				
Lindane - BHC gamma (insecticide) (also an isomer of BHC)						
Applesauce	570	0			0.013 ^	NT
Asparagus	354	0			0.013 ^	NT
Cabbage	354	0			0.005 ^	NT
Cranberries	311	0			0.005 ^	0.5 AL
Cranberries, Frozen	428	0			0.005 ^	0.5 AL
Cucumbers	378	0			0.005 ^	NT
Garbanzo Beans, Canned	189	0			0.001 ^	0.5 AL
Grapefruit	526	0			0.005 ^	0.5 AL
Lettuce	378	0			0.013 ^	NT
Mangoes	177	0			0.001 - 0.005	NT
Milk	711	0			0.005 ^	0.3 AL *
Olives, Canned	754	0			0.001 - 0.005	0.5 AL
Onions	708	0			0.001 - 0.005	NT
Pineapple, Canned	726	0			0.005 - 0.045	NT
Plums, Dried / Prunes	191	0			0.013 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Potatoes	701	0			0.045 ^	0.5 AL
Tomatoes, Canned	566	0			0.001 ^	NT
Water, Bottled	756	0			6.8 ^ (ppt)	
TOTAL	**8,778**	**0**				
Mirex (insecticide)						
Applesauce	570	0			0.001 ^	NT
Asparagus	354	0			0.001 ^	NT
Lettuce	378	0			0.001 ^	NT
Plums, Dried / Prunes	191	0			0.001 ^	NT
TOTAL	**1,493**	**0**				
Oxychlordane (metabolite of Chlordane)						
Grapefruit	271	0			0.020 ^	0.1 AL
Mangoes	90	0			0.005 - 0.020	NT
Milk	711	0			0.020 ^	NT
Olives, Canned	754	0			0.005 - 0.020	0.1 AL
TOTAL	**1,826**	**0**				

NOTES

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

* Measured on a fat basis for milk.

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

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

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

Appendix G

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

Appendix G gives the number of 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 G, samples originated from 45 States and 36 foreign countries. There were 360 domestic samples from unknown States and 4 mixed national origin samples from unknown countries. There were an additional 51 samples from unknown origins. Overall, 72.4 percent of samples were from U.S. sources, 26.0 percent were imports from single countries, 1.1 percent were of mixed national origin, and 0.5 percent were of unknown origin.

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

Part 1. Domestic Samples

	Fresh F&V											Processed F&V							Others			# of	% of
	AS	CA	CG	CU	GF	GK	LT	MA	ON	SN	SW	AC	AZ	NC	OL	PD	TC	ZB	HY	MK	WB	Samples	Total
Alabama											1											1	< 0.1
Alaska																					1	1	0.0
Arizona				3	1	6	6		5	2		7			18	2	16	4		1	3	74	0.7
Arkansas										7	11	21		1	31	2	24	6	8	6	8	125	1.2
California	6	38	95	4	261	274	318	9	120	173	231	66	58	11	319	81	88	23	42	155	118	2490	23.6
Colorado			20			12	1		17							7	3		7	33	1	101	1.0
Connecticut			1						1								3			2	119	126	1.2
Delaware			2																			2	0.0
Florida			4	34	75	12	13		4	6	5	5		1	13	3	5	3	11	41	19	254	2.4
Georgia			5	9		74			39		7						2		1	5	25	167	1.6
Hawaii																					4	4	< 0.1
Idaho									52		3				6		5	1	3	1	5	76	0.7
Illinois		4	4	1		6			14		2	45	2	3	32	1	38	13	14	9	18	206	2.0
Indiana			1	1		1	1		1		3						35			5		48	0.5
Iowa																			20			20	0.2
Kansas									1			4			4		3		7	2		21	0.2
Kentucky									1											1		2	< 0.1
Louisiana											24										1	25	0.2
Maine												3	33		5		1			9	4	55	0.5
Maryland	1	1	12			30			3		4	3	1		8	4	6	3	3	15		94	0.9
Massachusetts		149	1			1					2		115				2			4	1	275	2.6
Michigan		7	20			14			21	1		28	32		20	1	19	5	10	68	43	289	2.7
Minnesota					2	15				1	2	16	27		27	2	18	17		16	2	145	1.4
Mississippi											106											106	1.0
Missouri											1	4		3	1		11	2	1	7	2	32	0.3
Nebraska																	74					74	0.7
Nevada									29													29	0.3
New Hampshire												1					2		1			4	< 0.1
New Jersey		3	6	4		9					7	2			12		22	23	7	24	3	122	1.2
New Mexico			1						18											2		21	0.2
New York			27			12	1		32		12	22			15	1	22	7	4	73	79	307	2.9
North Carolina			11	2		11					181	24			27		30	4	3	19	16	328	3.1
Ohio			13		3	23			12	10	1	18		2	28	4	43	9	7	72	26	271	2.6
Oklahoma											1											1	< 0.1
Oregon		2				2			70		1	5	72		4		5	3	2	7	5	178	1.7
Pennsylvania			3			1	1		4	2	2	55			2		12	15	8	17	31	153	1.5
Rhode Island												1			2							3	< 0.1
South Carolina						30											1				2	33	0.3
Tennessee																		25		8	6	39	0.4
Texas	1		21	9	138	49	8		50	10	23	135	12	1	33	9	30	10	22	72	20	653	6.2
Utah									5													5	< 0.1
Vermont												2								1		3	< 0.1
Virginia			1	1					1			16					4		11	8		42	0.4
Washington		2	19		2	6			99		2	39				1	7		2	21	9	209	2.0
Wisconsin		33	5			7							3					2		3		53	0.5
Unknown State	4	6	52	14	19	56	21	3	36	9	68	8	5	1	5	1	7	2	5		38	360	3.4
No. of Domestic	12	245	324	82	501	651	370	12	635	221	700	530	360	23	612	119	538	177	199	707	609	7,627	
% of Total	3	79	92	22	95	92	98	7	90	31	100	93	84	3	81	62	95	94	63	99	81		72.4

Part 2. Imported Samples

	Fresh F&V											Processed F&V							Others			# of	% of
	AS	CA	CG	CU	GF	GK	LT	MA	ON	SN	SW	AC	AZ	NC	OL	PD	TC	ZB	HY	MK	WB	Samples	Total
Argentina																18			1			19	0.2
Australia																			1			1	< 0.1
Bahamas				1																		1	< 0.1
Brazil								67											25			92	0.9
Canada		66	26	30		7	1		10			32	68				1	3	3		10	257	2.4
Chile	1															15						16	0.2
China												3		2								5	< 0.1
Croatia																					2	2	< 0.1
Dominican Republic				4																		4	< 0.1
Ecuador								71														71	0.7
Egypt															6							6	0.1
Fiji																					35	35	0.3
France																1					64	65	0.6
Guatemala										295												295	2.8
Honduras				19																		19	0.2
Iceland																					9	9	0.1
India																			2			2	< 0.1
Indonesia														117			1					118	1.1
Italy																	19				6	25	0.2
Kenya														9								9	0.1
Mexico	160		4	238	10	47	4	27	29	151	1											671	6.4
Morocco															3							3	< 0.1
New Zealand																					11	11	0.1
Norway																					2	2	< 0.1
Peru	181								32	42												255	2.4
Philippines														202			1					203	1.9
Romania																					1	1	< 0.1
South Africa					11																	11	0.1
Spain				1											128				1			130	1.2
Sri Lanka														5								5	< 0.1
Thailand														385								385	3.7
Turkey															1							1	< 0.1
Ukraine																			2			2	< 0.1
United Kingdom																					1	1	< 0.1
Vietnam														13								13	0.1
No. of Imports	342	66	30	293	21	54	5	165	71	488	1	35	68	733	138	34	22	3	35	0	141	2,745	
% of Total	97	21	8	78	4	8	1	93	10	69	< 1	6	16	97	18	18	4	2	11	0	19		26.0

Part 3. Mixed National Origin Samples

	Fresh F&V											Processed F&V							Others			# of	% of
	AS	CA	CG	CU	GF	GK	LT	MA	ON	SN	SW	AC	AZ	NC	OL	PD	TC	ZB	HY	MK	WB	Samples	Total
Argentina / Australia / Chile / USA																8						8	0.1
Argentina / Brazil																			1			1	< 0.1
Argentina / Canada / India / Ukraine / Uruguay / USA																			1			1	< 0.1
Argentina / Canada / India / Ukraine / USA																			10			10	0.1
Argentina / Canada / India / Uruguay / USA																			6			6	0.1
Argentina / Canada / India / USA																			1			1	< 0.1
Argentina / Canada / Mexico																			1			1	< 0.1
Argentina / Canada / Mexico / USA																			4			4	< 0.1
Argentina / Canada / Ukraine																			2			2	< 0.1
Argentina / Canada / Ukraine / USA																			3			3	< 0.1
Argentina / Canada / USA																			18			18	0.2
Argentina / Chile / France / USA																14						14	0.1
Argentina / Chile / USA																14						14	0.1
Argentina / India / Mexico / Uruguay / USA																			1			1	< 0.1
Argentina / USA																			6			6	0.1
Argentina / Vietnam / USA																			1			1	< 0.1
Brazil / Canada																			3			3	< 0.1
Brazil / Mexico																			4			4	< 0.1
Brazil / Mexico / Uruguay																			4			4	< 0.1
Brazil / Mexico / USA																			1			1	< 0.1
Canada / India / Ukraine / USA																			1			1	< 0.1
India / Mexico / Ukraine																			2			2	< 0.1
India / Ukraine																			3			3	< 0.1
India / Ukraine / Vietnam																			4			4	< 0.1
India / Vietnam																			1			1	< 0.1
Multi-Country Origin - Countries Unknown																1			3			4	< 0.1
No. of Mixed National Origin Samples																37			81			118	
% of Total																19			26				1.1

Part 4. Unknown Origin Samples

	Fresh F&V											Processed F&V							Others			# of	% of
	AS	CA	CG	CU	GF	GK	LT	MA	ON	SN	SW	AC	AZ	NC	OL	PD	TC	ZB	HY	MK	WB	Samples	Total
Unknown Origin				3	4	3	3		2	1		5			4	1	6	9		4	6	51	0.5
% of Total				1	1	< 1	1		< 1	< 1		1			1	1	1	5		1	1		0.5

Sample Totals:	354	311	354	378	526	708	378	177	708	710	701	570	428	756	754	191	566	189	315	711	756	10,541

Commodity Legend		
AC = Applesauce	GK = Kale	ON = Onions
AS = Asparagus	HY = Honey	PD = Plums, Dried (Prunes)
AZ = Cranberries, Frozen	LT = Lettuce	SN = Snap Peas
CA = Cranberries, Fresh	MA = Mangoes	SW = Sweet Potatoes
CG = Cabbage	MK = Milk	TC = Tomatoes, Canned
CU = Cucumbers	NC = Pineapple, Canned	WB = Water, Bottled
GF = Grapefruit	OL = Olives, Canned	ZB = Garbanzo Beans, Canned

Appendix H

Import Versus Domestic Pesticide Residue Comparisons

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

Appendix H compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries in 2017. Residue data for domestic snap peas are compared with data for samples originating in both Guatemala and Mexico. Only residues detected in more than 5 percent of all samples are included in each comparison. All pesticides detected were registered in the United States. However, the profiles of residue findings were markedly different in the United States samples versus samples from these exporting countries. The differences in residue detections between countries were likely due to the pesticides used in response to pest pressures based on differing environmental and climatic conditions as well as crop production and protection practices.

Appendix H. Import Versus Domestic Pesticide Residue Comparisons

2017 Distribution of Residues for Snap Pea Samples Originating in Guatemala and Mexico Versus United States

(Only Pesticides with Residue Detections in at least 5 Percent of all Samples)

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections	Range of Detections, ppm	EPA Tolerance, ppm
Azoxystrobin	United States	221	11	5.0	0.003 - 0.33	3.0
	Guatemala	295	37	12.5	0.003 - 0.32	3.0
	Mexico	151	44	29.1	0.003 - 0.25	3.0
Bifenthrin	United States	221	30	13.6	0.002 - 0.11	0.6
	Guatemala	295	2	0.7	0.009 - 0.024	0.6
	Mexico	151	32	21.2	0.002 - 0.10	0.6
Carbendazim (MBC)	United States	221	4	1.8	0.025 - 0.23	NT
	Guatemala	295	42	14.2	0.025 - 2.3	NT
	Mexico	151	0	0		NT
Chlorantraniliprole	United States	221	45	20.4	0.02 - 0.19	2.0
	Guatemala	295	1	0.3	0.02	2.0
	Mexico	151	20	13.2	0.02 - 0.10	2.0
Cyhalothrin, Lambda	United States	221	27	12.2	0.003 - 0.042	0.20
	Guatemala	295	115	39.0	0.003 - 0.091	0.20
	Mexico	151	3	2.0	0.003 - 0.031	0.20
Cypermethrin	United States	221	31	14.0	0.02 - 0.17	0.5
	Guatemala	295	30	10.2	0.02 - 0.30	0.5
	Mexico	151	27	17.9	0.02 - 0.61	0.5
DCPA	United States	221	50	22.6	0.002 - 0.014	NT
	Guatemala	295	0	0		NT
	Mexico	151	3	2.0	0.002 - 0.014	NT
Dimethoate	United States	221	15	6.8	0.025 - 0.16	2.0
	Guatemala	295	87	29.5	0.025 - 2.0	2.0
	Mexico	151	2	1.3	0.025 - 0.74	2.0
Pyraclostrobin	United States	221	10	4.5	0.003 - 0.046	0.5
	Guatemala	295	26	8.8	0.003 - 0.14	0.5
	Mexico	151	10	6.6	0.003 - 0.19	0.5
Tebuconazole	United States	221	7	3.2	0.008 - 0.096	NT
	Guatemala	295	69	23.4	0.008 - 0.39	NT
	Mexico	151	1	0.7	0.008	NT
Tetrahydrophthalimide (THPI)	United States	221	4	1.8	0.025 - 0.036	0.05
	Guatemala	295	51	17.3	0.012 - 0.25	0.05
	Mexico	151	1	0.7	0.059	0.05

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

Appendix I

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

Appendix I shows 116 commodity/pesticide pairs (including metabolites, isomers, and degradates) with detections in at least 5 percent of the samples tested. The data shown include the range and mean of values detected and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendixes apply to 2017 and not to the current year. There may be instances where tolerances have been recently set, modified, or revoked that would have an effect on whether a residue is violative or not.

APPENDIX I. PESTICIDE RESIDUES [A] BY COMMODITY

(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	**Applesauce (11 pesticides)**							
	Acetamiprid *	I	77.2	570	440	0.002 - 0.058	0.013	1.0
	Boscalid	F	6.7	570	38	0.003 - 0.018	0.007	3.0
	Carbendazim (MBC) [1]	F	67	570	382	0.001 - 0.060	0.013	2.0
	Cyprodinil	F	10.4	570	59	0.005 - 0.015	0.007	1.7
	Diphenylamine (DPA)	F	48.9	570	279	0.002 - 0.12	0.016	10.0
	Flubendiamide	I	21.2	570	121	0.004 - 0.015	0.006	1.5
	Fludioxonil	F	14	570	80	0.026 - 0.37	0.081	5.0
	Imidacloprid	I	8.2	570	47	0.003 - 0.025	0.007	0.5
	Pyrimethanil	F	24.4	570	139	0.056 - 2.7	0.308	15
	Tetrahydrophthalimide (THPI) [2]	FM	69.1	570	394	0.010 - 0.45	0.068	25.0
	Thiabendazole	F	32.3	570	184	0.002 - 0.67	0.077	5.0
2	**Asparagus (1 pesticide)**							
	Chlorpyrifos *	I	8.8	354	31	0.005 - 0.16	0.04	5.0
3	**Cabbage (1 pesticide)**							
	Imidacloprid	I	7.9	354	28	0.010 - 0.063	0.022	3.5
4	**Cranberries (3 pesticides)**							
	Azoxystrobin	F	9.6	311	30	0.001 - 0.005	0.002	5.0
	Chlorantraniliprole	I	12.2	311	38	0.005 - 0.018	0.008	2.5
	Fenbuconazole	F	10.3	311	32	0.001 - 0.012	0.002	0.5
5	**Cranberries, Frozen (4 pesticides)**							
	Chlorantraniliprole	I	8.9	428	38	0.005 - 0.016	0.007	2.5
	Fenbuconazole	F	13.6	428	58	0.001 - 0.036	0.007	0.5
	Methoxyfenozide	I	20.6	428	88	0.002 - 0.016	0.005	3.0
	Spinetoram	I	5.1	428	22	0.001 - 0.005	0.003	0.90
6	**Cucumbers (13 pesticides)**							
	Azoxystrobin	F	17.5	378	66	0.002 - 0.038	0.008	0.3
	Bifenthrin *	I	9	378	34	0.005 - 0.029	0.013	0.4
	Boscalid	F	8.2	378	31	0.010 - 0.26	0.033	0.5
	Carbendazim (MBC) [1]	F	9.8	378	37	0.010 - 0.051	0.022	1.0
	Chlorothalonil	F	8.2	378	31	0.005 - 0.64	0.045	5.0
	Cyprodinil	F	7.9	378	30	0.007 - 0.11	0.022	0.70
	Dinotefuran *	I	5	378	19	0.010 - 0.16	0.049	0.5
	Flonicamid	I	7.9	378	30	0.011 - 0.32	0.073	1.5
	Fluopicolide	F	11.4	378	43	0.010 - 0.12	0.023	0.50
	Metalaxyl/Mefenoxam [3]	F	25.9	378	98	0.005 - 0.32	0.053	1.0
	Propamocarb	F	67.5	378	255	0.010 - 0.88	0.13	1.5
	Pyraclostrobin	F	7.1	378	27	0.003 - 0.082	0.009	0.5
	Thiamethoxam *	I	10.8	378	41	0.010 - 0.065	0.03	0.2

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
7 Grapefruit (3 pesticides)							
Imazalil	F	85.6	526	450	0.001 - 0.21	0.032	10.0
Imidacloprid	I	16.5	526	87	0.003 - 0.020	0.006	0.70
Thiabendazole	F	71.7	526	377	0.001 - 0.20	0.044	10.0
8 Honey (2 pesticides)							
2,4-dimethylphenyl formamide	I	75.6	315	238	0.003 - 0.082	0.015	0.2
Thymol	F	13.7	315	43	0.007 - 0.21	0.059	EX
9 Kale (30 pesticides)							
Acetamiprid *	I	5.5	708	39	0.017 - 3.6	0.403	15
Ametoctradin	F	6.4	708	45	0.003 - 37	2.802	50
Azoxystrobin	F	34.3	708	243	0.003 - 11.5	0.989	25
Bifenthrin *	I	29.7	708	210	0.002 - 2.5	0.106	3.5
Boscalid	F	11.9	708	84	0.017 - 15.7	0.753	18.0
Chlorantraniliprole	I	24.3	708	172	0.017 - 7.5	0.533	11
Cyantraniliprole	I	7.2	708	51	0.017 - 8.4	0.678	30
Cyfluthrin *	I	11.2	708	79	0.013 - 2.6	0.282	7.0
Cyhalothrin, Lambda *	I	7.8	708	55	0.003 - 0.33	0.041	0.01
Cypermethrin *	I	28.7	708	203	0.020 - 4.2	0.502	14.0
DCPA	H	54.9	708	389	0.002 - 0.74	0.037	5.0
Difenoconazole	F	5.5	708	39	0.002 - 1.6	0.222	35
Dimethomorph	F	5.8	708	41	0.050 - 13.7	1.09	30.0
Fenamidone	F	5.8	708	41	0.008 - 8.7	0.521	60
Flonicamid	I	5.2	708	37	0.083 - 4.8	0.509	16
Fluopicolide	F	29.1	708	206	0.003 - 1.8	0.082	18
Fluopyram	F	8.2	708	58	0.003 - 2.5	0.121	50
Flupyradifurone	I	6.9	708	49	0.050 - 3.8	0.408	40
Indoxacarb	I	9.9	708	70	0.005 - 2.5	0.49	12
Mandipropamid	F	18.4	708	130	0.008 - 11.5	0.834	25
Metalaxyl/Mefenoxam [3]	F	6.6	708	47	0.007 - 2.6	0.119	0.1
Methoxyfenozide	I	11.3	708	80	0.017 - 12.9	1.553	30
Pendimethalin	H	8.8	708	62	0.005 - 0.059	0.014	0.20
Penthiopyrad	F	7.8	708	55	0.003 - 12	0.717	50
Permethrin Total	I	7.6	708	54	0.005 - 4.9	0.367	5.0
Pyraclostrobin	F	16.1	708	114	0.003 - 8.8	0.563	16.0
Spinetoram	I	12	708	85	0.017 - 0.41	0.066	10
Spinosad	I	5.1	708	36	0.003 - 1.2	0.089	10.0
Spirotetramat	I	11.9	708	84	0.008 - 0.89	0.086	8.0
Trifluralin	H	8.9	708	63	0.002 - 0.016	0.002	0.05
10 Lettuce (11 pesticides)							
Boscalid	F	6.9	378	26	0.003 - 1.1	0.061	6.5/11.0 [&]
Cyhalothrin, Total [4 *]	I	6.9	378	26	0.009 - 0.64	0.093	2.0
Dimethomorph	F	19.6	378	74	0.003 - 1.5	0.106	30.0
Fenamidone	F	18.3	378	69	0.005 - 3.2	0.161	60
Flonicamid	I	5.8	378	22	0.006 - 1.0	0.102	4.0
Imidacloprid	I	40.5	378	153	0.003 - 0.087	0.017	3.5
Mandipropamid	F	13	378	49	0.002 - 3.1	0.217	20
Metalaxyl/Mefenoxam [3]	F	7.4	378	28	0.001 - 0.009	0.003	5.0

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
Permethrin							
Permethrin cis [5]	IM	6.3	378	24	0.011 - 1.2	0.155	20
Permethrin trans [5]	IM	5.6	378	21	0.010 - 1.5	0.171	20
Propamocarb hydrochloride [6]	F	16.7	378	63	0.002 - 3.0	0.182	50/90 [&]
Thiamethoxam *	I	13.8	378	52	0.003 - 0.049	0.01	4.0
11 Mangoes (6 pesticides)							
Azoxystrobin	F	21.5	177	38	0.001 - 0.51	0.087	2.0
Carbendazim (MBC)	F	15.8	177	28	0.001 - 0.015	0.003	NT
Imidacloprid	I	14.1	177	25	0.003 - 0.032	0.012	1.0
Pyraclostrobin	F	8.5	177	15	0.001 - 0.007	0.002	0.6
Thiabendazole (parent)	F	48	177	85	0.001 - 2.0	0.343	10.0
5-Hydroxythiabendazole [7]	FM	16.7	90	15	0.001 - 0.003	0.002	10.0
Trifloxystrobin	F	12.4	177	22	0.001 - 0.061	0.02	0.7
12 Olives, Canned (2 pesticides)							
Buprofezin	I	14.5	754	109	0.001 - 0.057	0.011	3.5
Fenpropathrin	I	18.2	754	137	0.001 - 0.16	0.016	5.0
13 Onions (2 pesticides)							
Boscalid	F	12.9	708	91	0.002 - 0.022	0.004	5.0
Imidacloprid	I	6.8	708	48	0.002 - 0.016	0.005	0.15
14 Plums, Dried / Prunes (5 pesticides)							
Azoxystrobin	F	13.1	191	25	0.002 - 0.025	0.008	2.0
Carbendazim (MBC) [1]	F	12	191	23	0.001 - 0.007	0.003	0.5
Diphenylamine (DPA)	F	9.4	191	18	0.002 - 0.010	0.004	NT
Methoxyfenozide	I	14.1	191	27	0.003 - 0.088	0.015	0.30
Piperonyl butoxide *	I	6.8	191	13	0.010 - 0.19	0.053	10
15 Snap Peas (11 pesticides)							
Azoxystrobin	F	13.2	710	94	0.003 - 0.33	0.052	3.0
Bifenthrin *	I	9	710	64	0.002 - 0.11	0.026	0.6
Carbendazim (MBC) [1]	F	6.5	710	46	0.025 - 2.3	0.311	NT
Chlorantraniliprole	I	9.3	710	66	0.017 - 0.19	0.06	2.0
Cyhalothrin, Lambda *	I	20.6	710	146	0.003 - 0.091	0.014	0.20
Cypermethrin *	I	12.4	710	88	0.020 - 0.61	0.071	0.5
DCPA	H	7.5	710	53	0.002 - 0.014	0.003	NT
Dimethoate	I	14.8	710	105	0.025 - 2.0	0.127	2.0
Pyraclostrobin	F	6.6	710	47	0.003 - 0.19	0.027	0.5
Tebuconazole	F	11.5	710	82	0.008 - 0.39	0.046	NT
Tetrahydrophthalimide (THPI) [2]	FM	8	710	57	0.012 - 0.25	0.042	0.05
16 Sweet Potatoes (4 pesticides)							
Dicloran	F	25.5	701	179	0.022 - 4.7	0.683	10
Fludioxonil	F	23	701	161	0.066 - 3.0	0.326	6.0
Piperonyl butoxide	I	7.8	701	55	0.015 - 0.80	0.099	10
Thiabendazole	F	13.8	701	97	0.006 - 4.1	0.492	10

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
17 Tomatoes, Canned (5 pesticides)							
Azoxystrobin	F	18.9	566	107	0.002 - 0.015	0.003	0.2
Bifenthrin *	I	18.2	566	103	0.002 - 0.018	0.004	0.15
Difenoconazole	F	6.5	566	37	0.003 - 0.021	0.008	0.60
Fluxapyroxad	F	11.8	566	67	0.002 - 0.030	0.004	0.7
Imidacloprid	I	29.9	566	169	0.002 - 0.018	0.003	1.0

NOTES

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

NT No tolerance established.

EX Exempt from the requirement of a tolerance.

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

& Tolerance is different for head and leaf lettuce. First value shown is for head lettuce and the second is for leaf lettuce.

1 From parent, benomyl.

2 Metabolite of captafol and captan.

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

4 Includes cyhalothrin lambda plus R157836 epimer.

5 Isomer of parent, permethrin.

6 Analytically determined as the salt (hydrochloride).

7 Metabolite of parent, thiabendazole.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

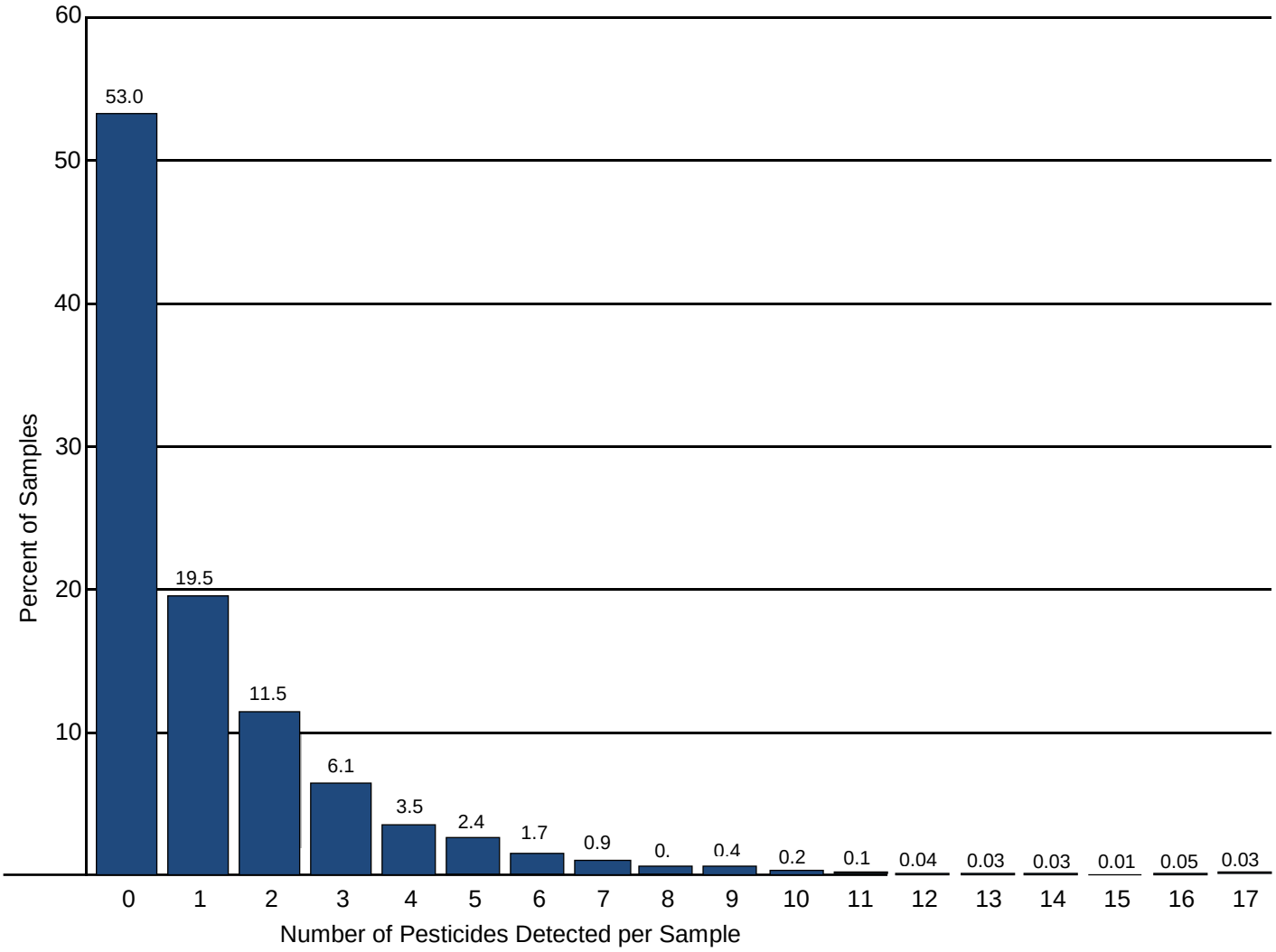
Appendix J

Number of Pesticides Detected per Sample

Appendix J shows the percentage of samples versus the number of pesticides detected per sample. 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 10,541 samples analyzed, 53.0 percent of the samples had no detectable pesticides, 19.5 percent had 1 pesticide, and 27.5 percent of the samples had more than 1 pesticide.

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

APPENDIX J. NUMBER OF PESTICIDES [1] DETECTED PER SAMPLE



Number of Pesticides Detected per Sample

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
# of Samples	5,590	2,052	1,207	640	370	256	181	99	57	40	16	14	4	3	3	1	5	3
% of Total Samples	53.0	19.5	11.5	6.1	3.5	2.4	1.7	0.9	0.5	0.4	0.2	0.1	0.04	0.03	0.03	0.01	0.05	0.03

TOTAL NUMBER OF SAMPLES = 10,541

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 F, 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."

APPENDIX J. NUMBER OF PESTICIDES DETECTED PER SAMPLE

Commodity (# of samples)	Number of Pesticides [1] Detected per Sample																	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Fresh Fruit and Vegetables:	Percent																	
Asparagus (354)	81.1	15.0	2.3	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabbage (354)	74.9	16.7	5.4	2.3	0.6	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Cranberries (311)	61.1	31.5	7.1	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cucumbers (378)	9.3	20.9	26.5	19.8	13.8	5.8	1.6	2.1	0.3	--	--	--	--	--	--	--	--	--
Grapefruit (526)	5.7	24.9	49.8	16.2	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Kale (708)	5.4	11.9	11.4	12.1	13.1	11.7	9.5	7.3	5.8	5.4	1.7	2.0	0.6	0.4	0.4	0.1	0.7	0.4
Lettuce (378)	22.2	28.8	19.0	11.9	6.6	4.2	4.0	1.1	1.1	0.5	0.5	--	--	--	--	--	--	--
Mangoes (177)	23.2	33.3	26.0	14.7	1.1	1.7	--	--	--	--	--	--	--	--	--	--	--	--
Onions (178)	76.8	20.3	2.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Snap Peas (710)	27.0	27.6	25.5	13.1	3.8	1.3	1.3	0.1	--	--	0.3	--	--	--	--	--	--	--
Sweet Potatoes (701)	45.1	38.9	14.4	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Processed Fruit and Vegetables:																		
Applesauce (570)	7.4	2.5	8.1	23.0	20.5	18.1	13.7	5.1	1.8	--	--	--	--	--	--	--	--	--
Cranberries, Frozen (428)	62.4	19.2	17.3	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garbanzo Beans, Canned (189)	96.8	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Olives, Canned (754)	64.9	27.9	6.1	1.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Pineapple, Canned (756)	99.9	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Plums, Dried/Prunes (191)	48.2	31.4	15.7	4.2	--	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Tomatoes, Canned (566)	52.1	20.7	9.0	7.2	5.7	3.4	0.9	0.9	0.2	--	--	--	--	--	--	--	--	--
Percent of Total Samples	47.3	20.3	13.2	7.2	4.2	2.9	2.1	1.1	0.7	0.5	0.2	0.2	0.05	0.03	0.03	0.01	0.06	0.03
Actual Number of Samples	4,145	1,775	1,156	632	369	256	181	99	57	40	16	14	4	3	3	1	5	3
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 8,759																		
Honey Product:																		
Honey (315)	23.2	61.6	15.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	73	194	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dairy Product:																		
Milk (711)	98.3	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	699	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Water Product:																		
Water, Bottled (756)	89.0	9.4	0.4	1.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	673	71	3	8	1	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

[1] Environmental contaminants, listed in Appendix F, 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."

Appendix K

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 K 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 2017, a total of 368 samples with 431 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Pesticides exceeding the tolerance were detected in 58 samples including 5 samples of asparagus, 1 sample of fresh cranberries, 9 samples of cucumbers, 24 samples of kale, 2 samples of onions, 16 samples of snap peas, and 1 sample of sweet potatoes. Of those 58 samples, 32 were reported as imported produce.

In addition, 320 samples were found to have pesticides for which no tolerance was established, including 239 fresh fruit and vegetable samples, 73 processed fruit/vegetable samples, and 8 honey samples.

- 270 samples contained 1 pesticide for which no tolerance was established.
- 48 samples contained 2 pesticides for which no tolerance was established.
- 2 samples contained 3 pesticides for which no tolerance was established.

Ten of the 320 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 K also notes if metabolites (or isomers) were detected as part of the same sample. In instances where both parent and metabolite (or isomer) were detected, the Pesticide Data Program accounted for both as part of the same tolerance expression.

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

APPENDIX K. 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	Asparagus / Cypermethrin	0.01	0.14	0.05	Peru
2	Asparagus / Dimethoate [1]	0.005	1.8	0.15	Peru
3	Asparagus / Methamidophos	0.005	0.83	0.02	Peru
4	Asparagus / Methamidophos	0.005	0.17	0.02	Peru
5	Asparagus / Methamidophos	0.005	0.041	0.02	Peru
6	Asparagus / Methamidophos	0.005	0.038	0.02	Peru
7	Asparagus / Omethoate [1]	0.02	0.28	0.15	Peru
8	Cranberries / Phenothrin	0.025	0.029	0.01	U.S.
9	Cucumbers / Chlorfenapyr	0.005	0.031	0.01	Mexico
10	Cucumbers / Chlorfenapyr	0.005	0.029	0.01	U.S.
11	Cucumbers / Chlorfenapyr	0.005	0.026	0.01	Mexico
12	Cucumbers / Chlorfenapyr	0.005	0.026	0.01	Honduras
13	Cucumbers / Chlorfenapyr	0.005	0.022	0.01	Mexico
14	Cucumbers / Chlorfenapyr	0.005	0.021	0.01	Mexico
15	Cucumbers / Chlorfenapyr	0.005	0.02	0.01	Mexico
16	Cucumbers / Methamidophos	0.01	0.11	0.02	Mexico
17	Cucumbers / Methomyl	0.01	0.68	0.2	U.S.
18	Kale / Cyhalothrin, Lambda	0.002	0.33	0.01	U.S.
19	Kale / Cyhalothrin, Lambda	0.002	0.26	0.01	U.S.
20	Kale / Cyhalothrin, Lambda	0.002	0.23	0.01	U.S.
21	Kale / Cyhalothrin, Lambda	0.002	0.22	0.01	U.S.
22	Kale / Cyhalothrin, Lambda	0.002	0.19	0.01	Canada
23	Kale / Cyhalothrin, Lambda	0.002	0.16	0.01	U.S.
24	Kale / Cyhalothrin, Lambda	0.002	0.12	0.01	Canada
25	Kale / Cyhalothrin, Lambda	0.002	0.11	0.01	U.S.
26	Kale / Cyhalothrin, Lambda	0.002	0.067	0.01	Unknown
27	Kale / Cyhalothrin, Lambda	0.002	0.066	0.01	U.S.
28	Kale / Cyhalothrin, Lambda	0.002	0.061	0.01	Unknown
29	Kale / Cyhalothrin, Lambda	0.002	0.051	0.01	U.S.
30	Kale / Cyhalothrin, Lambda	0.002	0.05	0.01	U.S.
31	Kale / Cyhalothrin, Lambda	0.002	0.04	0.01	U.S.
32	Kale / Cyhalothrin, Lambda	0.002	0.038	0.01	U.S.
33	Kale / Cyhalothrin, Lambda	0.002	0.024	0.01	U.S.
34	Kale / Deltamethrin [2]	0.004	1.9	0.05	U.S.
35	Kale / Deltamethrin [2]	0.004	0.29	0.05	U.S.
36	Kale / Deltamethrin [2]	0.004	0.09	0.05	U.S.

	Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
37	Kale / Metalaxyl/Mefenoxam [3]	0.004	2.6	0.1	Mexico
38	Kale / Metalaxyl/Mefenoxam [3]	0.004	1.4	0.1	Mexico
39	Kale / Metalaxyl/Mefenoxam [3]	0.004	0.27	0.1	Mexico
40	Kale / Metalaxyl/Mefenoxam [3]	0.004	0.2	0.1	U.S.
41	Kale / Tebuconazole	0.005	5.9	2.5	U.S.
42	Onions / Acephate	0.005	0.053	0.02	U.S.
43	Onions / Acephate	0.005	0.036	0.02	U.S.
44	Snap Peas / Cypermethrin	0.012	0.61	0.5	Mexico
45	Snap Peas / Deltamethrin [2]	0.004	0.16	0.05	Peru
46	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.25	0.05	Guatemala
47	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.2	0.05	Guatemala
48	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.16	0.05	Guatemala
49	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.14	0.05	Guatemala
50	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.14	0.05	Guatemala
51	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.1	0.05	Guatemala
52	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.073	0.05	Guatemala
53	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.069	0.05	Guatemala
54	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.068	0.05	Guatemala
55	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.064	0.05	Guatemala
56	Snap Peas / Tetrahydrophthalimide (THPI) [4]	0.007	0.064	0.05	Guatemala
57	Snap Peas / Thiamethoxam	0.03	0.17	0.02	Mexico
58	Snap Peas / Thiamethoxam	0.03	0.05	0.02	Guatemala
59	Snap Peas / Thiamethoxam	0.03	0.05	0.02	U.S.
60	Sweet Potatoes / Deltamethrin [2]	0.12	0.12	0.05	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 Asparagus (5 pesticides)								
Atrazine	354	1	0.3	0.53 ^	0.002 ^	0	1	0
Carbendazim (MBC) [5]	294	1	0.3	0.002 ^	0.001 ^	0	1	0
Carbofuran (parent)	354	4	1.1	0.005 - 0.13	0.001 - 0.002	0	4	0
3-Hydroxycarbofuran [6]	354	2	0.6	0.003 - 0.035	0.003 ^	0	2	0
Diphenylamine (DPA)	354	2	0.6	0.004 - 0.007	0.002 ^	0	2	0
Imidacloprid	354	8	2.3	0.004 - 0.092	0.003 ^	0	8	0
2 Cranberries (2 pesticides)								
Ametoctradin	311	1	0.3	0.003 ^	0.001 ^	1	0	0
Chlorpropham	311	1	0.3	0.023 ^	0.005 ^	1	0	0
3 Cucumbers (2 pesticides)								
Chlorpropham	378	5	1.3	0.006 - 0.047	0.005 ^	1	4	0
Quinoxyfen	378	1	0.3	0.016 ^	0.010 ^	1	0	0
4 Garbanzo Beans, Canned (1 pesticide)								
Diphenylamine (DPA)	189	1	0.5	0.021 ^	0.003 ^	1	0	0
5 Grapefruit (1 pesticide)								
Fenamidone	526	1	0.2	0.001 ^	0.001 ^	1	0	0
6 Honey (3 pesticides)								
2,6-dichlorobenzamide	315	2	0.6	0.020 - 0.074	0.008 ^	2	0	0
Alachlor	315	3	1	0.46 - 1.1	0.40 ^	1	2	0
Carbendazim (MBC) [5]	315	3	1	0.005 ^	0.005 ^	3	0	0
7 Kale (1 pesticide)								
Fenpropathrin	708	1	0.1	0.003 ^	0.002 ^	1	0	0
8 Lettuce (7 pesticides)								
Carbendazim (MBC) [5]	378	1	0.3	0.003 ^	0.001 ^	0	1	0
Diflubenzuron	378	1	0.3	0.002 ^	0.002 ^	1	0	0
Diphenylamine (DPA)	378	1	0.3	0.004 ^	0.002 ^	1	0	0
Diuron	378	2	0.5	0.002 - 0.004	0.002 ^	2	0	0
Oryzalin	378	1	0.3	0.021 ^	0.020 ^	1	0	0
Thiabendazole	378	1	0.3	0.005 ^	0.002 ^	1	0	0
Trifluralin	378	1	0.3	0.001 ^	0.001 ^	1	0	0
9 Mangoes (4 pesticides)								
Carbendazim (MBC) [5]	177	28	15.8	0.001 - 0.015	0.001 - 0.010	1	27	0
Chlorpropham	177	6	3.4	0.002 - 0.044	0.001 - 0.005	1	5	0
Diphenylamine (DPA)	90	1	1.1	0.001 ^	0.001 - 0.003	1	0	0
Flutriafol	177	8	4.5	0.002 - 0.011	0.001 - 0.002	0	8	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 Olives, Canned (4 pesticides)								
Carbendazim (MBC) [5]	754	25	3.3	0.001 - 0.004	0.001 ^	25	0	0
Fluridone	754	26	3.4	0.001 - 0.002	0.001 ^	26	0	0
Tebuconazole	754	13	1.7	0.008 - 0.038	0.003 - 0.005	13	0	0
Trifloxystrobin	754	1	0.1	0.006 ^	0.001 ^	0	1	0
11 Onions (1 pesticide)								
Methomyl	708	2	0.3	0.004 - 0.014	0.002 - 0.010	2	0	0
12 Pineapple, Canned (1 pesticide)								
Carbendazim (MBC) [5]	756	1	0.1	0.012 ^	0.010 ^	0	1	0
13 Plums, Dried / Prunes (1 pesticide)								
Diphenylamine (DPA)	191	18	9.4	0.002 - 0.010	0.002 ^	9	9	0
14 Snap Peas (6 pesticides)								
Buprofezin	710	3	0.4	0.002 - 0.004	0.001 ^	0	3	0
Carbendazim (MBC) [5]	710	46	6.5	0.025 - 2.3	0.015 ^	4	42	0
DCPA	710	53	7.5	0.002 - 0.014	0.001 ^	50	3	0
Fenpyroximate	710	1	0.1	0.087 ^	0.001 ^	0	1	0
Permethrin Total	704	10	1.4	0.005 - 0.33	0.003 ^	4	6	0
Tebuconazole	710	82	11.5	0.008 - 0.39	0.005 ^	7	75	0
15 Sweet Potatoes (2 pesticides)								
Chlorpropham	701	3	0.4	0.024 - 0.029	0.020 ^	3	0	0
Permethrin (parent) [7]								
Permethrin cis	701	2	0.3	0.040 - 0.095	0.020 ^	2	0	0
Permethrin trans	701	2	0.3	0.027 - 0.12	0.010 ^	2	0	0

NOTES

1 Omethoate is a metabolite of the parent, Dimethoate. One asparagus sample contained both Dimethoate and Omethoate.
2 Deltamethrin includes parent Tralomethrin.
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 Tetrahydrophthalimide (THPI) is a metabolite of Captafol and Captan.
5 Carbendazim (MBC) is a metabolite of Benomyl and Thiophanate methyl.
6 Two asparagus samples contained both Carbofuran and its 3-Hydroxycarbofuran metabolite.
7 Two sweet potato samples contained both the cis and trans permethrin isomers.

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 2017

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

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

Comments/ Suggestions: (Attach additional pages if needed)

_____

_____

_____

_____

_____

_____

How did you obtain this copy? _____

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

Requested _____

Mailing Address _____

_____

_____

_____

Mail or Fax to:

USDA-AMS-S&T-Monitoring Programs Division
1400 Independence Ave, SW
Room 0611-S, Stop 0276
Facsimile: 202-572-8177

Electronic Mail: amsmpo.data@usda.gov