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Service

Science and
Technology
Program

Pesticide Data Program

Annual Summary, Calendar Year 2018



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

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Dear Reader:

We are pleased to present the Pesticide Data Program's (PDP) 28th Annual Summary for calendar year 2018. 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 tolerance, or maximum amount of a pesticide allowed to remain in or on a food, that is set by the U.S. Environmental Protection Agency (EPA).

PDP provides high-quality, nationally representative data to help ensure consumer confidence in the foods they provide to their families. 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 2018, 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 additional 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/Chemicals-Metals-Pesticides-Food/Pesticides>.

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The States participating in the Pesticide Data Program (PDP) deserve special recognition for their contributions to the program. The dedication and flexibility of sample collectors allow the 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 for Food Safety and Applied Nutrition, Office of Food Safety, in helping to set the direction for PDP.

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Executive Summary

In 1991, the U.S. Department of Agriculture (USDA), Agricultural Marketing Service (AMS) was charged with designing and implementing the Pesticide Data Program (PDP) to collect data on pesticide residues in food. PDP provides high-quality data on residues in food, particularly foods most likely consumed by infants and children. This 28th Pesticide Data Program summary presents results for samples collected in 2018.

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 2018, 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 consider 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 87.8 percent of the total 10,545 samples collected in 2018. Other samples collected included rice (1.8 percent), wheat flour (7.2 percent), and heavy cream (3.2 percent). Fresh and processed fruit and vegetables tested during 2018 were: asparagus, cabbage, cilantro, cranberries (canned and frozen), garbanzo beans (canned), green onions, kale, kiwi fruit, mangoes, olives (canned), peaches (canned), plums (dried/prunes), raisins, snap peas, spinach (frozen), strawberries (frozen), sweet peas (frozen), and sweet potatoes. Domestic samples accounted for 66.2 percent of the samples, while 32.1 percent were imports, 1.3 percent were of mixed national origin, and 0.4 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 2018 and are too numerous to be included in their entirety in this summary. The PDP database file for 2018, 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 2018, over 99 percent of the samples tested had residues well below the tolerances established by the EPA with 47.8 percent having no detectable pesticide residue. Appendixes B through F provide a distribution of residues by pesticide for the commodities tested. In 2018, residues exceeding the tolerance were detected in 0.78 percent (82 samples) of the total samples tested (10,545 samples). Of these 82 samples, 43 were domestic (52.4 percent) and 39 were imported (47.6 percent). Residues with no established tolerance were found in 6.1 percent (642 samples) of the total samples tested (10,545 samples). Of these 642 samples, 374 were domestic (58.3 percent), 266 were imported (41.4 percent), and 2 were of unknown origin (0.3 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, or by downloading an electronic copy from www.ams.usda.gov/datasets/pdp/pdpdata.

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Acronyms and Abbreviations

% C.V.	Percent Coefficient of Variation
A2LA	American Association for Laboratory Accreditation
AL	Action Level
AMS	Agricultural Marketing Service
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
NCI	Negative Chemical Ionization
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 2018

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 populations 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.

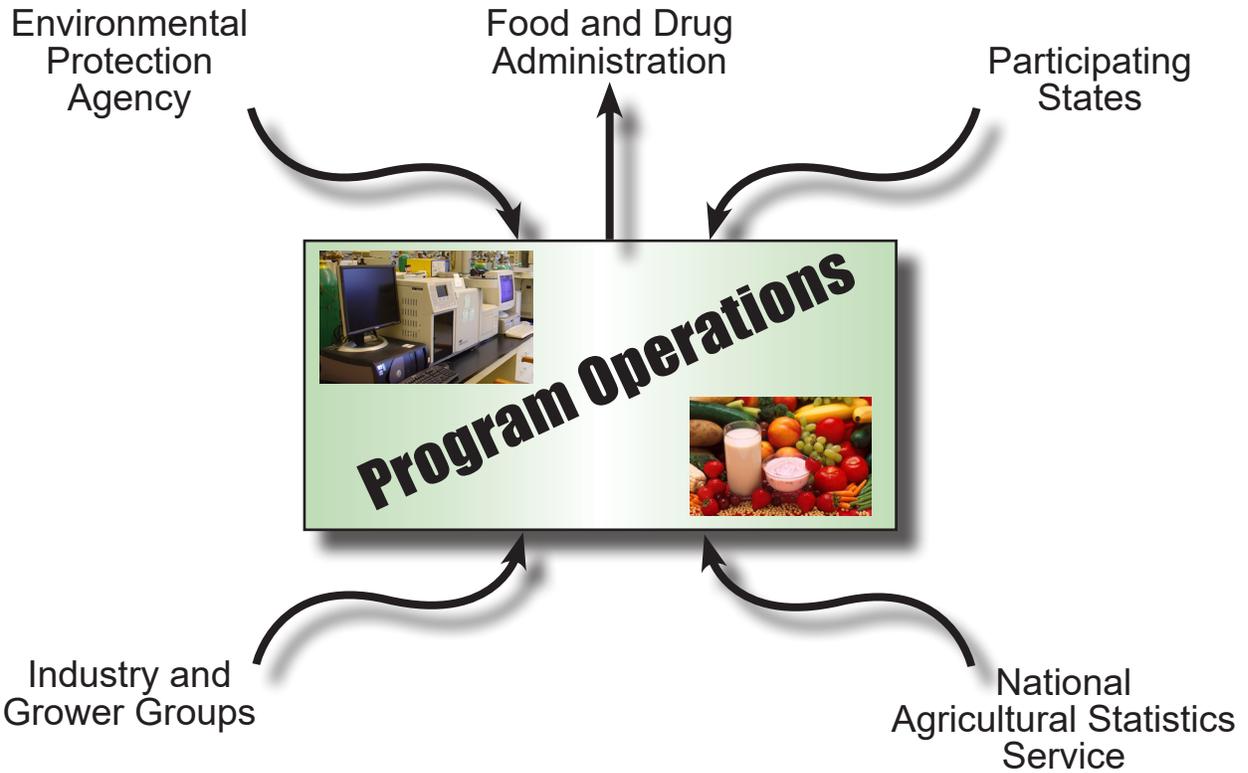
Because PDP collects data on food commodities primarily for consumer exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. Commodities chosen for inclusion in the program are based on EPA data needs. PDP samples are collected 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.

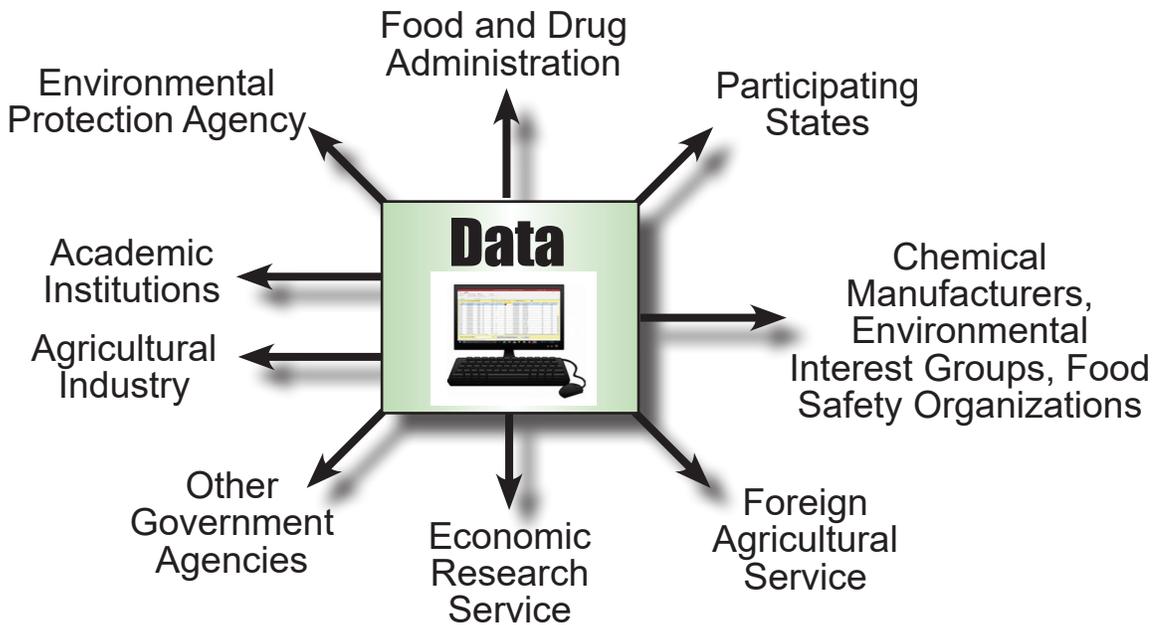
Figure 1(a) illustrates contributors to PDP policy development and planning operations. Primary contributors to these activities include the participating States, EPA, FDA, USDA's National Agricultural Statistics Service (NASS), and additional stakeholders including industry and grower groups. Figure 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 2018, 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



(a) PDP Policy and Planning Contributors



(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.

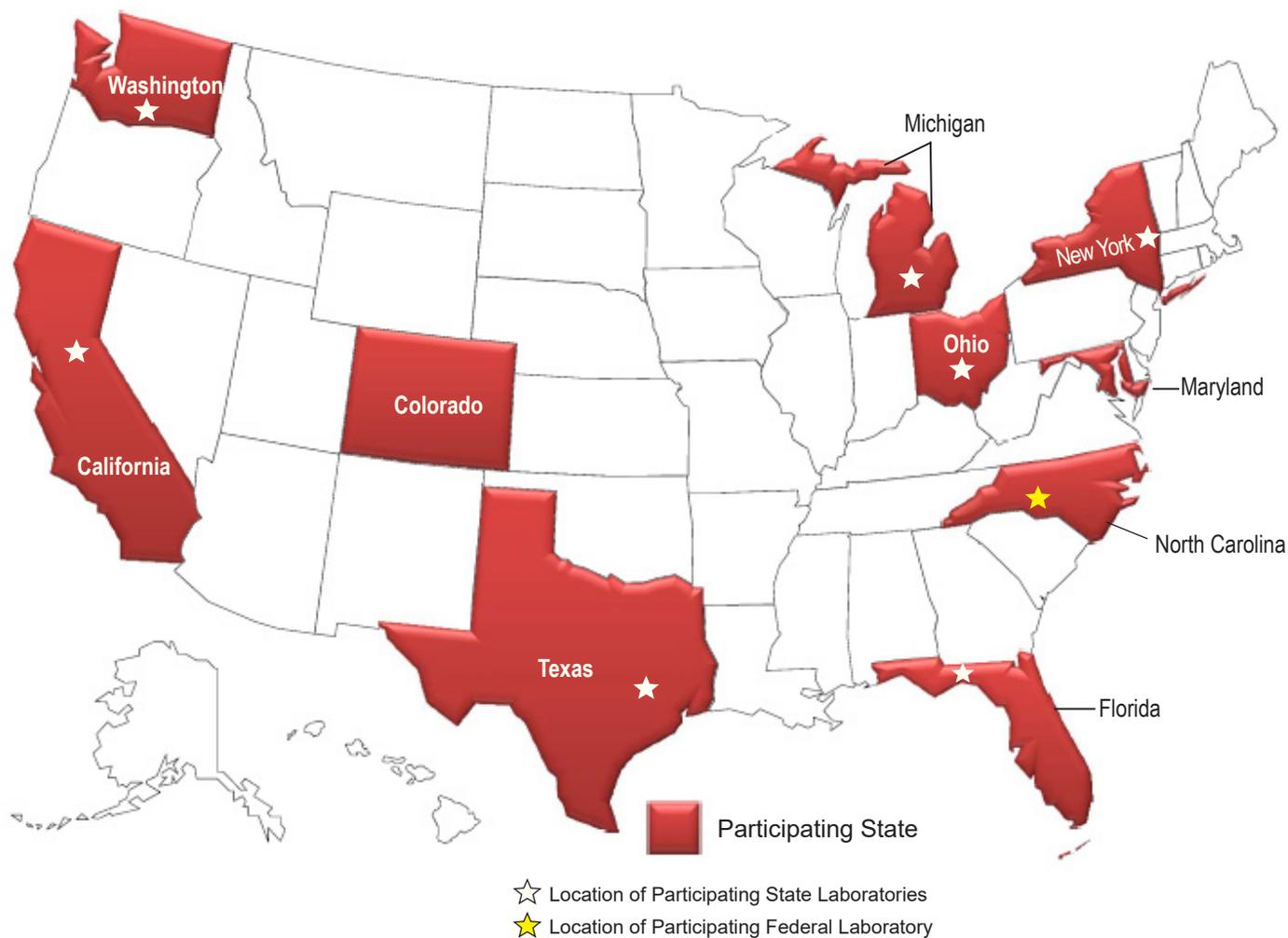


Figure 2. Program Participants. During 2018, USDA’s Agricultural Marketing Service established cooperative agreements with 10 States to sample and/or test Pesticide Data Program commodities. Together, these States represent about 50 percent of the Nation’s population and all four census regions of the 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 heavy cream samples.

foods consumed by infants and children. Commodities are cycled through the program approximately every 5 years. High-consumption fresh fruit and vegetable commodities remain in the program for 2 years to capture two full growing seasons, thereby capturing any changes due to seasonality or year-to-year variations. Processed products, as well as dairy, 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 2019.¹

Fruit and vegetable samples are collected at terminal markets² 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 considers residue degradation while food commodities are in storage. Participation as a

¹ The U.S. National Residue Program (NRP) administered by the U.S. Department of Agriculture’s (USDA), Food Safety and Inspection Service (FSIS) monitors pesticide residues for meat, poultry, and egg products.

² 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.

PDP sampling site is voluntary, which sets it apart from State and Federal enforcement programs. In 2018, over 560 sites granted access and provided information, including site volume data, to sample collectors. Voluntary cooperation is important to PDP and makes it possible to adjust sampling protocols in response to fluctuations in food distribution and production.

Pesticides screened by PDP include those with current registered uses 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), rice (Appendix C), wheat flour (Appendix D), and heavy cream (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 2018, over 560 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 14,000 pounds of produce to the Greater Lansing Food Bank during 2018.

◆ 2018 Sampling Operations

The number of fruit, vegetable, rice, wheat flour, and heavy cream samples collected in each participating State is determined by State population. The monthly collection schedule for all 2018 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 2018, 6.7 percent of the tested samples were organic (710 of 10,545); summaries of findings by claim may be found by using the PDP web app: <https://apps.ams.usda.gov/pdp>.

State population figures are used to assign the number of fruit, vegetable, and other specialty samples scheduled for collection each month. During 2018, 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.

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Asparagus					Jun-19
Cabbage					Jun-19
Cilantro					Mar-19
Cranberries, Canned					Sep-18
Cranberries, Frozen					Mar-18
Garbanzo Beans, Canned					Sep-18
Green Onions					Dec-18
Heavy Cream					Aug-18
Kale					Dec-18
Kiwi Fruit					Mar-20
Mangoes					Sep-18
Olives, Canned					Sep-18
Peaches, Canned					Dec-18
Plums, Dried (Prunes)					Sep-18
Raisins					Dec-18
Rice					Sep-19
Snap Peas					Dec-18
Spinach, Frozen					Mar-19
Strawberries, Frozen					Sep-19
Sweet Peas, Frozen					Mar-19
Sweet Potatoes					Mar-18
Wheat Flour					Dec-18

Table 1. Pesticide Data Program (PDP) Commodity Collection Schedule for 2018. 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 2019).

State	AS	CG	CL	GK	GO	KW	MA	SN	SW	Total Fresh
California	156	156	39	155	156	117	118	156	39	1,092
Colorado	26	24	6	24	24	18	18	24	6	170
Florida	84	84	21	84	84	62	63	83	21	586
Maryland	48	48	12	48	48	36	36	44	12	332
Michigan	72	72	18	72	72	54	54	72	18	504
New York	107	108	27	108	108	81	81	108	27	755
N. Carolina	0	0	0	0	0	0	0	0	0	0
Ohio	72	72	18	72	72	54	54	72	18	504
Texas	96	96	24	96	95	72	72	96	24	671
Washington	48	47	12	48	48	36	36	48	12	335
TOTAL	709	707	177	707	707	530	532	703	177	4,949

State	AZ	CC	OL	PD	PS	RA	RC	SF	SZ	ZB	Total Processed	Total Fresh & Processed F&V	Grains		Dairy CM
													RI	WF	
California	37	154	117	116	39	156	78	39	39	117	892	1,984	39	156	5
Colorado	4	24	18	19	6	24	12	6	6	18	137	307	6	24	6
Florida	20	83	62	62	21	84	42	20	21	62	477	1,063	21	84	68
Maryland	12	48	36	36	12	48	24	13	12	36	277	609	12	48	20
Michigan	18	72	54	54	18	72	36	18	18	54	414	918	18	73	30
New York	27	108	81	81	27	108	54	27	27	81	621	1,376	27	108	45
N. Carolina	1	48	36	36	12	48	24	12	12	36	265	265	12	48	15
Ohio	10	74	57	54	18	72	36	18	18	54	411	915	18	72	30
Texas	10	96	72	73	24	96	48	24	24	72	539	1,210	24	97	40
Washington	11	48	36	36	12	48	25	11	12	36	275	610	12	48	22
TOTAL	150	755	569	567	189	756	379	188	189	566	4,308	9,257	189	758	341

Commodity Legend		
AS = Asparagus	KW = Kiwi Fruit	RI = Rice
AZ = Cranberries, Frozen	MA = Mangoes	SF = Spinach, Frozen
CC = Peaches, Canned	OL = Olives, Canned	SN = Snap Peas
CG = Cabbage	PD = Plums, Dried (Prunes)	SW = Sweet Potatoes
CL = Cilantro	PS = Sweet Peas, Frozen	SZ = Strawberries, Frozen
CM = Heavy Cream	RA = Raisins	WF = Wheat Flour
GK = Kale	RC = Cranberries, Canned	ZB = Garbanzo Beans, Canned
GO = Green Onions		

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
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).
Cilantro	Fresh cilantro. Loose, bagged, or pre-packaged in clamshells. Cilantro may also be known or sold as fresh coriander leaves or Chinese parsley.
Cranberries, Canned	Canned cranberries; whole berried or jellied. Conventional ingredients may include citric acid, corn syrup, high fructose corn syrup, sugar, and water. Organic ingredients may include organic sugar, organic lemon juice concentrate and organic fruit pectin.
Cranberries, Frozen	Frozen cranberries. Individually quick frozen (IQF) or frozen in own juices.
Garbanzo Beans, Canned	Canned whole garbanzo beans (chickpeas).
Green Onion	Bunched, fresh green onions, otherwise known as scallions or spring onions. The ends of these onions are fairly straight and do not have full, rounded bulbs at the ends.
Heavy Cream	Heavy cream, heavy whipping cream. Should have a fat content greater than 36 percent.
Kale	Fresh kale. Curly, Lacinato, Dinosaur, Tuscan, Red Russian, or Siberian kale. Whole leaf, sliced, cut or chopped. Pre-bagged or loose.
Kiwi Fruit	Whole, fresh fuzzy kiwifruit. Gold or green.
Mangoes	Fresh, whole mangoes.
Olives, Canned	Canned, pitted black olives. Whole, sliced, chopped, crushed, or diced.
Peaches, Canned	Canned peaches. Slices, halves, quarters, diced. Canning liquid may be syrup (extra heavy, heavy, light, extra light), peach juice, or water. Ingredients may include sugar and citric acid.
Plums, Dried (Prunes)	Dried, pitted plums/prunes. Potassium sorbate, sunflower oil, and medium chain triglycerides are acceptable products.
Raisins	Raisins (dried grapes). Dark, natural seedless variety in boxes or bags. Oil as ingredient (to keep the raisins separated) is acceptable.
Rice	Regular milled white rice (short, medium and long grain), brown rice, basmati rice, jasmine rice, texmati rice, polished rice, or Arroz.
Snap Peas	Any fresh, whole edible podded pea. Snap pea, sugar pea, sugar snap pea, snow pea (Chinese pea), or stringless sugar pea.
Spinach, Frozen	Frozen spinach. Whole, cut or sliced leaf, or chopped leaf.
Strawberries, Frozen	Frozen strawberries. Whole, halved, sliced, or cut.
Sweet Peas, Frozen	Frozen sweet peas. Frozen garden (English) peas, frozen baby (early) peas, or frozen green peas.
Sweet Potatoes	Fresh, whole sweet potatoes. No individual size requirements.
Wheat Flour	All-purpose, enriched, white wheat flour. Acceptable ingredients include: niacin, iron, thiamin mononitrate, riboflavin, folic acid, and malted barley flour.

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.

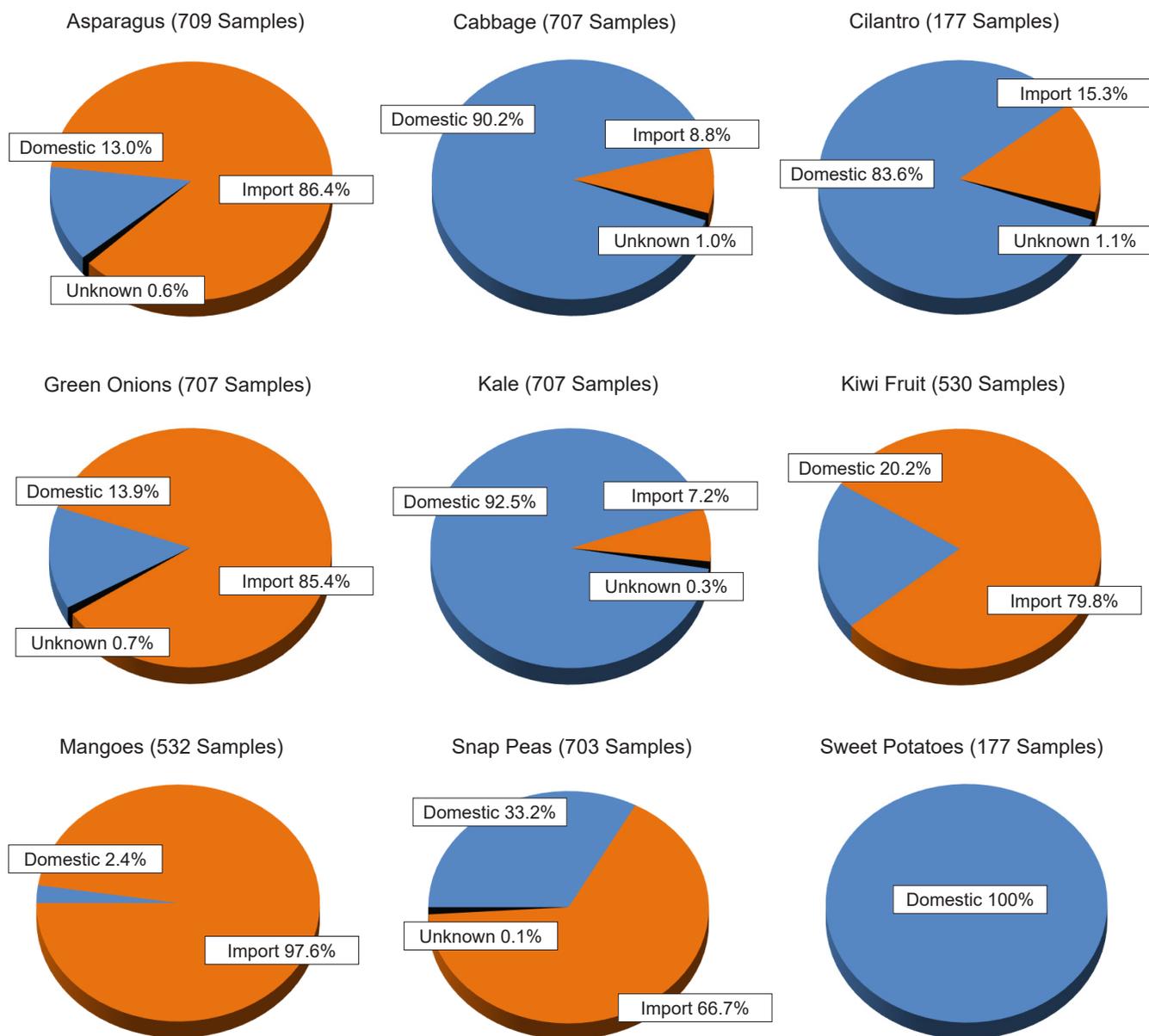
Additionally, North Carolina collected 4 samples per month for selected commodities – canned and frozen cranberries, canned garbanzo beans, heavy cream, canned olives, canned peaches, dried plums (prunes), raisins, rice, frozen spinach, frozen strawberries, frozen sweet peas, and wheat flour, which resulted in a total of 63 samples per commodity per month for these products.

In 2018, fruit, vegetable, rice, wheat flour, and heavy cream 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 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 2018, 46.7 percent of fruit, vegetable, rice, wheat flour, and heavy cream samples were collected at proxy sites. This percentage is higher than average in 2018 due to the relatively large number of processed commodities included this year. The commodities most often collected at these facilities were canned and frozen cranberries, canned garbanzo beans, heavy cream, canned olives, canned peaches, dried plums (prunes), raisins, rice, frozen spinach, frozen strawberries, frozen sweet peas, and wheat flour.

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 and asparagus samples. Fresh and processed fruit, vegetable, rice, wheat flour, and heavy cream samples originated from 41 States, 1 U.S. territory, and 32 foreign countries (refer to Appendix G).

A. Fresh Fruit and Vegetable Samples



B. Processed Fruit and Vegetable Commodities

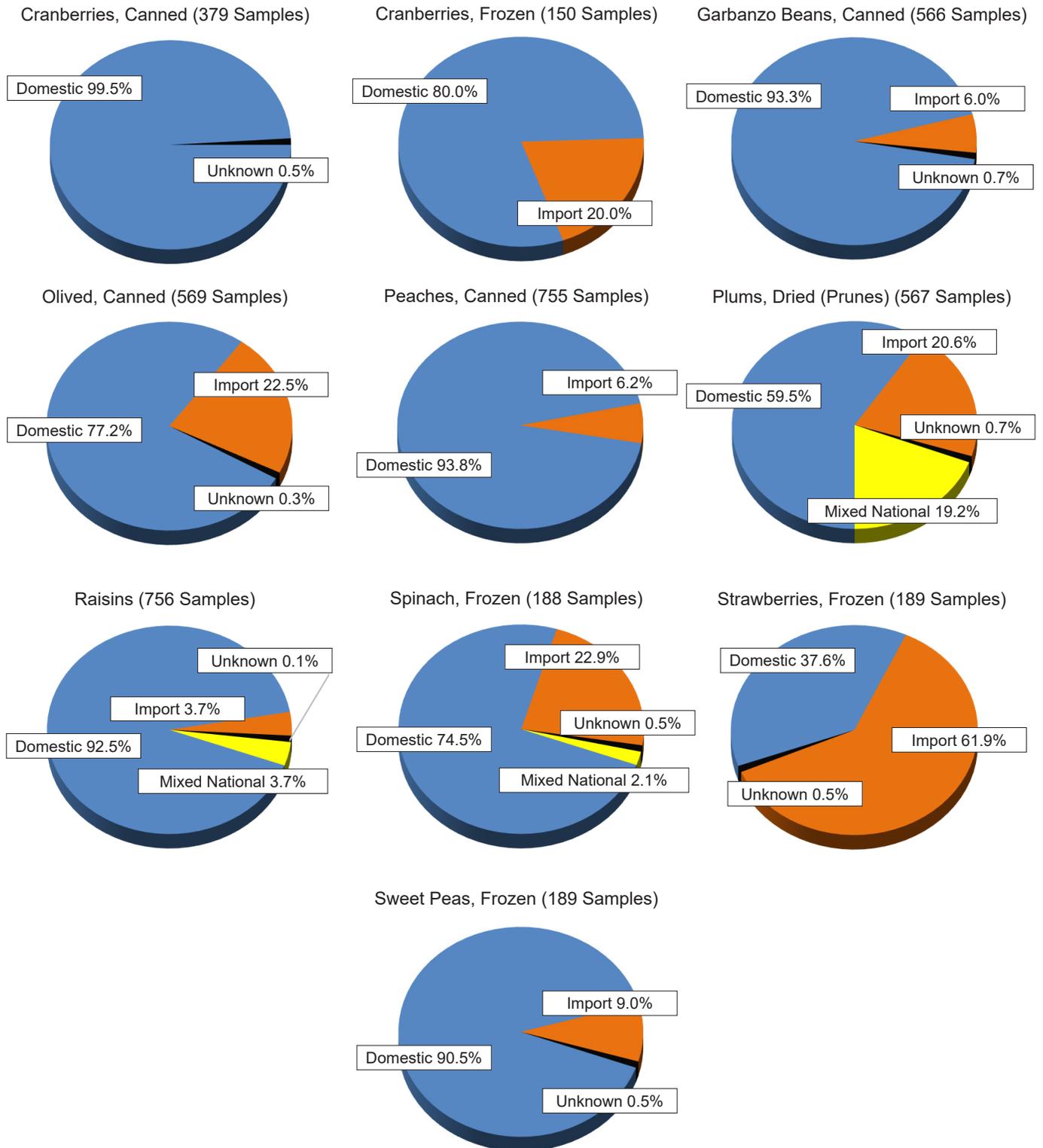


Figure 3. Commodity Origin. This figure depicts the proportion of commodity origin (domestic, import, unknown, and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2018.

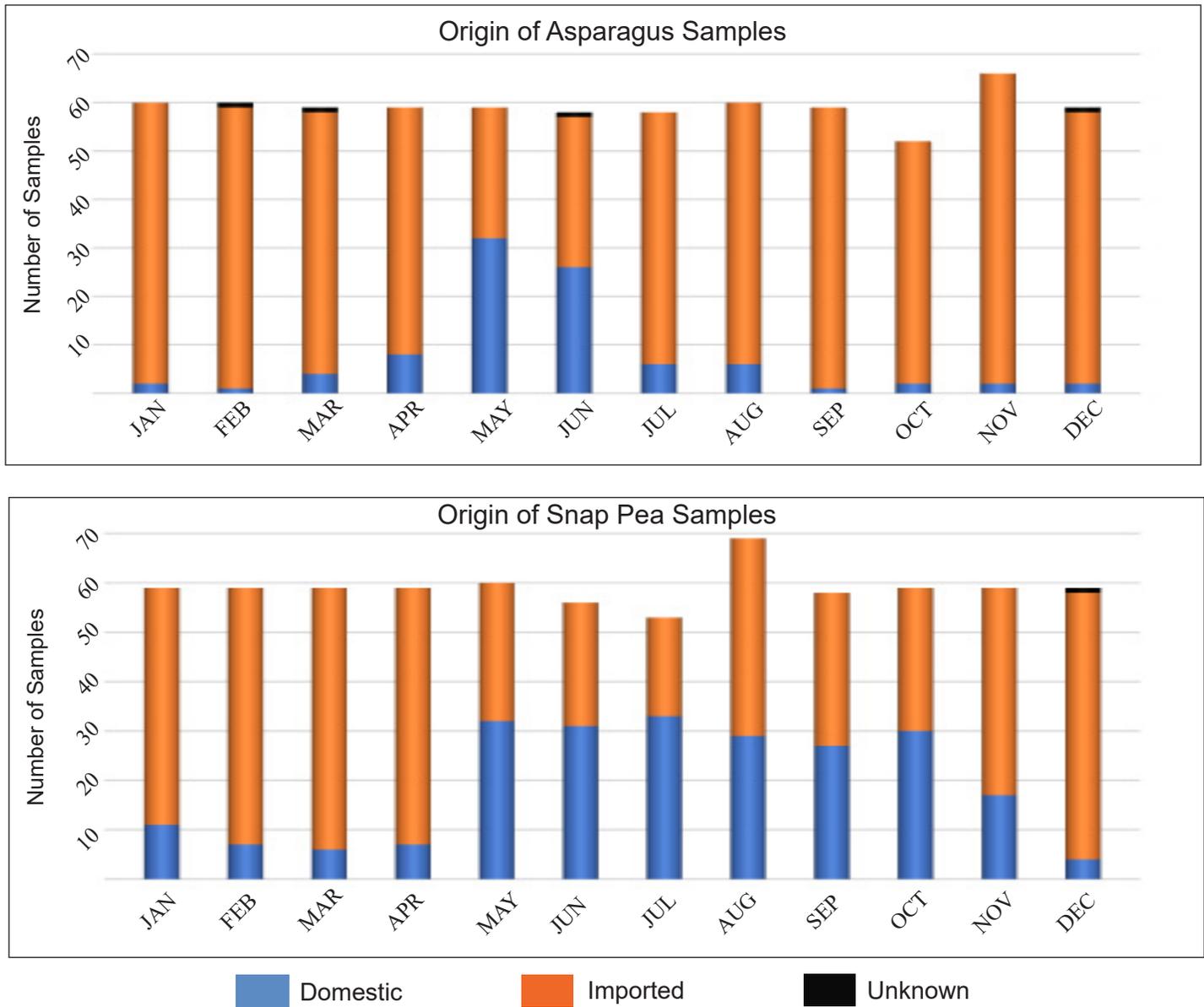


Figure 4. Origin of Selected Fresh Commodity: Asparagus and Snap Pea Samples. Differences in origin (domestic vs. import) are illustrated by month.

◆ Fresh and Processed Commodities

Of all samples collected and analyzed in 2018, 87.8 percent (9,257 of 10,545) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were asparagus, cabbage, cilantro, green onions, kale, kiwi fruit, mangoes, snap peas, and sweet potatoes. The processed commodities included canned and frozen cranberries, canned garbanzo beans, canned olives, canned peaches, dried plums (prunes), raisins, frozen spinach, frozen strawberries, and frozen sweet peas. Fresh and frozen fruit and vegetable

samples weighed either 3 or 5 pounds, except for cilantro, cranberries, and snap peas where the sample sizes were 1 pound. Three pounds were collected for smaller, low-weight commodities such as asparagus and kale, and 5 pounds were collected for larger, high-weight commodities such as cabbage and sweet potatoes.

◆ Rice

PDP collected and analyzed 189 rice samples in 2018. Three-pound samples were collected from routine PDP sampling sites that included major chain-store

distribution centers, terminal markets, and proxy retail sites. About 69 percent of the samples were collected from proxy sites. Regular milled white rice, brown rice, basmati rice, jasmine rice, and polished rice were collected. Red rice, black rice, wild rice, rice blends, pre-cooked rice, instant rice, orzo, par-boiled rice, flavor-added rice, and rice crackers were excluded. Distribution of residues in rice may be found in Appendix C. Pesticide residue analysis was performed by the California Department of Food and Agriculture laboratory located in Sacramento, CA.

◆ Wheat Flour

PDP collected and analyzed 758 wheat flour samples in 2018. Five-pound samples were collected from routine PDP sampling sites that included major chain-stores distribution centers, terminal markets, and proxy retail sites. About 74 percent of the samples were collected from proxy sites. All-purpose, enriched, white wheat flour was collected. Whole wheat flour, whole grain flour, flours other than wheat (such as rice or spelt), and any type other than all-purpose (such as self-rising or bread flour) were excluded. Distribution of residues in wheat flour may be found in Appendix D. Pesticide residue analysis was performed by the California Department of Food and Agriculture laboratory located in Sacramento, CA.

◆ Heavy Cream

PDP collected and analyzed 341 heavy cream samples in 2018. Samples, comprised of half pint (8 ounce) containers of at least 36 percent fat content, were collected from routine PDP sampling sites that included major chain-store distribution centers, terminal markets, and proxy retail sites. All heavy cream samples were domestic. About 78 percent of the samples were collected from proxy sites. Heavy cream or heavy whipping cream samples were collected. Whipped cream (aerosolized), light whipping cream, half and half cream, powdered cream, flavored or sweetened cream, evaporated milk, buttermilk, sour cream, coffee cream or other similar products were excluded. Distribution of residues in heavy cream may be found in Appendix E. Pesticide residue analysis was performed by the USDA's NSL located in Gastonia, NC.

◆ 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 560 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.

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.

◆ Fresh and Processed Commodities

A total of 9,257 fresh and processed fruit and vegetable samples were tested for 518 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 4, 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.³ 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.

◆ Rice

The California Department of Food and Agriculture laboratory tested 189 samples of rice. A total of 444 parent pesticides, metabolites, degradates and/or isomers, plus 19 environmental contaminants were screened in rice samples. Samples were prepared according to the procedures detailed in Table 4. Samples were extracted using modifications of the QuEChERS method, and analyses were performed using GC-MS/MS, and LC-MS/MS.

◆ Wheat Flour

The California Department of Food and Agriculture laboratory tested 758 samples of wheat flour. A total of 422 parent pesticides, metabolites, degradates and/or isomers, plus 18 environmental contaminants were screened in wheat flour samples. Upon arrival at the testing facility, wheat flour 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 4. Samples were extracted using modifications of the QuEChERS method, and analyses were performed using GC-MS/MS, and LC-MS/MS.

◆ Heavy Cream

USDA's NSL tested 341 samples of heavy cream. A total of 154 parent pesticides, metabolites, degradates and/or isomers, plus 8 environmental contaminants were screened in heavy cream samples. Samples were prepared according to

³ 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.

the procedures detailed in Table 4. Samples were extracted using a modification of the QuEChERS method and analyses were performed using GC-MS-NCI (Negative Chemical Ionization), 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)⁴ 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, rice, wheat flour, and heavy cream, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity.
- Matrix Blank - A previously analyzed sample of the same commodity, which contains either very low concentrations of known residues or no detectable residues, is divided into two portions. The first portion is used to determine background information on naturally occurring chemicals and the second to prepare a matrix spike.
- Matrix Spike(s) - Prior to extraction, a portion of 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

⁴ "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.

Commodity	Sample Preparation Steps
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: Cranberries, Garbanzo Beans, Olives, Peaches	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.
Cilantro	Trim the ends. Remove the discolored or damaged leaves. Wash and drain.
Dried Products: Plums (Prunes), Raisins	Open all of the dried fruit package(s) into a container and mix or shake to obtain a representative analytical portion. Add enough water to cover the analytical portion and soak with water until re-hydrated. Prepare for extraction.
Frozen Products: Cranberries, Spinach, Strawberries, Sweet Peas	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.
Green Onions	Wash and drain. Using a clean, dry knife, trim the bulb end of any roots/inedible material and trim the tops if damaged or wilted.
Heavy Cream	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 (1/2 pint) and weigh appropriate 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.
Kiwi Fruit	Wash and drain. Do not peel.
Mangoes	People with sensitive skin should handle mangoes with gloves. 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.
Rice	Grind the entire sample using an appropriate device to obtain a homogeneous mixture. If a significantly large sample is received, a subsample can be homogenized at the target weight.
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.
Wheat Flour	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 commodity's specified sampling size (5 pounds) and weigh appropriate analytical portion.

Table 4. 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.

chemical characteristics representative of their corresponding pesticide class. Marker pesticides may be used to monitor recovery instead of spiking all pesticides. This use of marker pesticides optimizes the resources required to analyze the thousands of analyte/matrix combinations in the program while still allowing evaluation of daily recovery patterns.

In addition, each laboratory must perform matrix spikes at least quarterly for each analyte/crop

combination it reports. Some laboratories choose to rotate spikes of all compounds on a set-to-set basis or spike all compounds analyzed with each set, so that the amount of spike recovery data obtained actually exceeds the minimal requirements previously stated. During 2018, PDP laboratories quantitated a total of 82,842 matrix spikes, with an overall mean recovery of 95.3 percent and an overall 24 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 2018, PDP laboratories quantitated a total of 23,321 process controls on 10,545 samples, with an overall mean recovery of 97.2 percent and an overall 18 percent C.V. Of these process controls, 2 (<0.01 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 2018, PDP laboratories that routinely analyze fruit and vegetable samples via MRMs participated in one FAPAS round for potato 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 2018, PDP laboratories received two multi-residue fruit and vegetable PT rounds (mangoes and frozen peas), each consisting of three test samples. The mango samples were fortified with a total of 12 different compounds with trifluralin spiked on 2 different samples. The frozen pea samples were fortified with a total of 13 different compounds with metalaxyl 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 distributed with all user interface software and database files residing on laboratory computers. The laboratory users need only Microsoft® Office tools to interface with the RDE system. Access is controlled through separate user login/password accounts and user access rights for the various

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)



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

DATA REVIEW AT HQ



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



YEAR-END REVIEW



- Data reconciliation

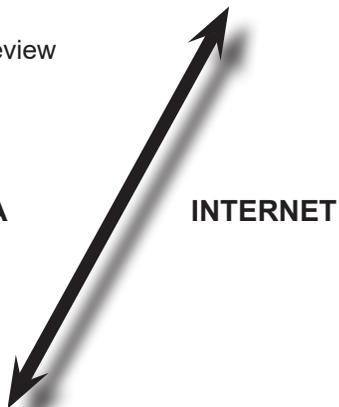


DATA REPORTING



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

INTERNET



INTERNET

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

system functions based on position requirements. The RDE system utilizes file encryption to secure all data stored in and transmitted from the RDE system.

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 central processing and distribution to the analyzing laboratories for import into the 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 checks on numeric fields, dates, and other character fields to ensure entries are within established 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 2018, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, rice, wheat flour and heavy cream. Of the 10,545 samples analyzed, 9,257 were fresh and processed fruit and vegetable samples, 189 were rice, 758 were wheat flour samples, and 341 were heavy cream, respectively. PDP testing methods are designed to detect the lowest possible levels of pesticide residues. In 2018, over 99 percent of the samples tested had residues below the tolerances established by the EPA with 47.8 percent having no detectable pesticide residue. The data reported by PDP illustrate 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 rice, wheat flour, and heavy cream, 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 (66.2 percent) were produced in the United States, 32.1 percent were imports, 1.3 percent were of mixed national origin, and 0.4 percent were of unknown origin. Appendix G shows the distribution of sample origin by State or country. Of all samples collected and analyzed, approximately 25.6 percent (2,700 of 10,545) were grown, packed, and/or distributed in or from California. Appendix H includes a comparison of residues for a select commodity with a significant domestic and import components.

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 2018. 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 kale (92.5 percent); sweet potatoes (100 percent); canned cranberries (99.5 percent); and canned peaches (93.8 percent) with only minor import (7.2 percent, 0 percent, 0 percent, and 6.2 percent, respectively) and unknown origins (0.3 percent, 0 percent, 0.5 percent, and 0 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. This sample set was selected to compare data where residues are present in greater than 5 percent of the commodity samples and allows 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 (λ) was detected in 37.1 percent of the snap pea samples from Guatemala, 4.0 percent from Mexico, and 8.2 percent of the U.S. samples. In contrast, the insecticide chlorantraniliprole was detected in 25.3 percent of the snap pea samples from the United States and 18.4 percent of the samples from Mexico. No chlorantraniliprole was detected in Guatemalan samples. The insecticide

cypermethrin was detected in 12.0 percent of the snap pea samples from the United States, 15.2 percent of the samples from Mexico, and 9.2 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. In 2018, 47.8 percent of the samples tested had no detectable pesticide residue, and over 99 percent of the samples tested had residues below the tolerances established by the EPA. 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 foreign countries. 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 presence of residues 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 commodity/pesticide 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 2018 is presented in Appendix J. These data indicate that 47.8 percent of all samples tested contained no detectable pesticides, 21.0 percent contained 1 pesticide, and 31.2 percent contained more than 1 pesticide. Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues." Environmental contaminants, listed in Appendix F, have been excluded from this count of pesticides.

One sample of raisins contained residues of 26 pesticides. None of the residues found on the raisin sample 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, several 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

Rice: The California laboratory conducted testing for pesticide residues on 189 rice samples. Thirty-eight residues (including metabolites and isomers) representing 37 pesticides were detected in rice (Appendix C). The most frequently detected residue was propiconazole, which was detected in 82 samples (43.4 percent). Piperonyl butoxide was detected in 47 samples (24.9 percent), azoxystrobin in 32 samples (16.9 percent), MGK-264 in 30 samples (15.9 percent), and deltamethrin in 22 samples (11.6 percent). One residue detection for thiamethoxam exceeded the established tolerance, while all other residue detections were lower than the established tolerances, where tolerances were established.

Wheat Flour: The California laboratory conducted testing for pesticide residues on 758 wheat flour samples. Twenty-one residues representing 18 pesticides were detected in wheat flour (Appendix D). The most frequently detected residue was deltamethrin, which was detected in 400 samples (52.8 percent). Piperonyl butoxide was detected in 231 samples (30.5 percent), malathion in 186 samples (24.5 percent), and chlorpyrifos methyl in 166 samples (21.9 percent). All residue detections were lower than the established tolerances, where tolerances were established.

Heavy Cream: The NSL laboratory conducted testing on 341 heavy cream samples. Appendix E shows six residues representing six pesticides were detected in heavy cream. The most frequently detected residue was clopyralid, which was detected in 198 samples (58.1 percent). Cyhalothrin (lambda) was detected in 188 samples (55.1 percent), novaluron in 17 samples (5.0 percent), fenpyroximate in 1 sample (0.3 percent), indoxacarb in 1 sample (0.3 percent), and propargite in 1 sample (0.3 percent). Nine residue detections for clopyralid exceeded the established tolerance, while all other residue detections were lower than the established tolerances, where tolerances were established.

◆ 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 cilantro (46.3 percent), kale (39 percent), frozen spinach (17 percent), snap peas (0.4 percent), sweet potatoes (0.6 percent), and raisins (0.1 percent). DDT p,p' was detected in cilantro (11.3 percent), kale (6.4 percent), frozen spinach (2.0 percent), and wheat flour (0.1 percent). DDT o,p' was detected in cilantro (14.7 percent) and kale (6.6 percent). DDD o,p' was detected in cilantro (0.6 percent). DDD p,p' was detected in cilantro (2.3 percent). No residues of DDE o,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) and dieldrin were detected in some of the tested commodities.

Dieldrin was detected in 11.5 percent of kale samples, 7.9 percent of cilantro samples, and 0.5 percent of frozen spinach samples. Chlordane (cis) was detected in 1.7 percent of cilantro samples and 1.4 percent of kale green samples, while chlordane (trans) was detected in 2.3 percent of cilantro samples and 0.6 percent of kale green samples. No residues of aldrin, BHC (alpha/beta/delta), endrin, 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. Apart from 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 ALs are noted with an "X" in Appendixes B, C, and E. Similarly, residues for which a tolerance is not established are noted with a "V" in Appendixes B, C, and D. 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 2018 and not to the current year. There may be instances where tolerances may have been recently changed that would influence 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 704 samples with 909 pesticides was reported to FDA as Presumptive Tolerance Violations. Pesticides exceeding the tolerance were detected in 0.78 percent (82 samples) of the total samples tested (10,545 samples). Of these 82 samples, 43 were domestic (52.4 percent) and 39 were imported (47.6 percent), representing 0.6 percent and 1.2 percent of the total domestic and imported samples, respectively. The samples containing pesticides that exceeded established tolerances included: seven samples of asparagus, one sample of cabbage, eight samples of cilantro, nine samples of heavy cream, 19 samples of kale, one sample of kiwi fruit, three samples of mangoes, three samples of raisins, one sample of rice, four samples of frozen spinach, 23 samples of snap peas, one sample of sweet potatoes, and two samples of frozen strawberries.

Residues with no established tolerance were found in 6.1 percent (642 samples) of the total samples

tested (10,545 samples). Of these 642 samples, 374 were domestic (58.3 percent), 266 were imported (41.4 percent), and 2 samples were of unknown origin (0.3 percent). These samples included 444 fresh fruit and vegetable samples, 151 processed fruit/vegetable samples, 30 rice samples, and 17 wheat flour samples. The 151 processed fruit/vegetable samples were canned cranberries, canned olives, dried plums/prunes, raisins, frozen spinach, and frozen strawberries. There were 508 samples that contained 1 pesticide for which no tolerance was established; 106 samples with 2 pesticides for which no tolerance was established; 13 samples with 3 pesticides for which no tolerance was established; 13 samples with 4 pesticides for which no tolerance was established; and 2 samples that contained 7 pesticides for which no tolerance was established. Twenty of the 642 samples also contained 1 pesticide each that exceeded an established tolerance. The pesticide residue levels and commodities are listed in Appendix K. 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; transfer of pesticide residues, post-harvest fungicides, or other growth regulators applied to other commodities kept in the same storage facilities; or exposure to pesticides during transportation through the distribution chain.

◆ Look Ahead

At the time this report was drafted, 2019 PDP sampling and testing was underway. Commodities included in the 2019 survey are: bananas, basil, cantaloupe, cilantro, dried garbanzo beans, hot peppers, mustard greens, oats, radishes, rice, spinach (canned/frozen), strawberries (frozen), sweet bell peppers, and sweet peas (canned/frozen). It is anticipated that the 2019 PDP data will be published in an annual summary approximately 1 year after the date of this report.



Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2019. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

**APPENDIX A. COMMODITY HISTORY
AS OF DECEMBER 2019**

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	Jun-19
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
Bananas	Jan-19	Ongoing
Basil	Apr-19	Sep-19
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	Jun-19
Cantaloupe	Jul-98	Jun-00
Cantaloupe	Oct-03	Sep-05
Cantaloupe	Jan-10	Mar-10
Cantaloupe	Oct-10	Jun-12
Cantaloupe	Jul-19	Ongoing
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
Cauliflower	Oct-19	Ongoing
Celery	Feb-92	Mar-94
Celery	Jan-01	Dec-02
Celery	Jan-07	Dec-08

Commodity	Start Date	End Date
Celery	Jan-13	Dec-14
Cherries ³	May-00	Aug-01
Cherries ²	May-07	Sep-07
Cherries	Apr-14	Mar-16
Cilantro	Oct-09	Sep-10
Cilantro	Oct-18	Mar-19
Collards	Oct-19	Ongoing
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
Hot Peppers	Jan-19	Dec-19
Kale	Jan-17	Dec-18
Kiwi Fruit	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 (O-1)	Jan-09	Dec-09
Mangoes	Apr-10	Sep-10
Mangoes	Oct-17	Sep-18
Mushrooms	Oct-01	Sep-03
Mushrooms	Oct-11	Sep-13
Mustard Greens	Jan-19	Dec-19
Nectarines ⁴	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08

Commodity	Start Date	End Date
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
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
Radishes	Jan-19	Ongoing
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

Commodity	Start Date	End Date
Sweet Bell Peppers	Jan-99	Dec-00
Sweet Bell Peppers	Oct-02	Sep-04
Sweet Bell Peppers	Jan-10	Mar-12
Sweet Bell Peppers	Jul-19	Ongoing
Sweet Potatoes ¹	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Sweet Potatoes	Oct-08	Sep-10
Sweet Potatoes	Apr-16	Mar-18
Tangerines	Jan-11	Dec-12
Tangerines	Oct-19	Ongoing
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 for Fresh Commodities

- 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.
- (O-1) Special project for testing only organic lettuce.
- (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
Garbanzo Beans, Dried	Jan-19	Dec-19
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
Orange Juice	Oct-19	Ongoing
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	Sep-19
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

Commodity	Start Date	End Date
Potatoes, Frozen	Jan-06	Dec-07
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	Sep-19
Spinach, Frozen	Jan-99	Dec-99
Strawberries, Frozen ³	Jan-98	Sep-00
Strawberries, Frozen	Oct-18	Sep-19
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
Tomato Paste, Canned	Oct-19	Ongoing
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 for Processed Commodities

- 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
Oats	Jan-19	Dec-19
Rice	Oct-00	Sep-02
Rice ¹	Oct-08	Sep-09
Rice	Apr-14	Aug-14
Rice	Oct-18	Sep-19
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)		
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.	Jan-04	Apr-13
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 for Grains, Nuts, Dairy, Fish, Meats and Eggs

- 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 2018 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 2018, the Pesticide Data Program (PDP) analyzed 9,257 fruit and vegetable samples, of which 4,949 were fresh products and 4,308 were processed products.

PDP reports tolerance violations to the Food and Drug Administration (FDA) as part of an interagency Memorandum of Understanding between the U.S. Department of Agriculture and FDA. Residues reported to FDA are shown in the "Tolerance Violation" column 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)							
Mangoes	211	0			0.003 - 0.005		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	313	0					
2,6-DIPN (plant growth regulator)							
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	671	0					
Abamectin (insecticide)							
Asparagus	679	2	0.3	0.070 - 0.11	0.050 - 0.10	X-2	0.01
Kale	707	0			0.025 ^		0.01
Mangoes	271	0			0.020 ^		0.01
Olives, Canned	569	0			0.020 ^		0.01
Plums, Dried / Prunes	567	0			0.050 ^		0.025
Snap Peas	703	1	0.1	0.042 ^	0.025 ^	X-1	0.01
Spinach, Frozen	102	0			0.020 ^		0.01
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.050 ^		0.05
TOTAL	3,787	3					
Acephate (insecticide)							
Asparagus	709	1	0.1	0.028 ^	0.003 ^		0.02
Cabbage	707	0			0.050 ^		0.02
Cilantro	177	0			0.005 ^		0.02
Cranberries, Canned	379	0			0.015 ^		0.5
Cranberries, Frozen	150	0			0.015 ^		0.5
Canned	566	0			0.005 - 0.015		0.02
Green Onions	707	0			0.050 ^		0.02
Kale	707	0			0.050 ^		0.02
Kiwi Fruit	530	0			0.15 ^		0.02
Mangoes	532	4	0.8	0.008 - 0.095	0.005 - 0.015	X-3	0.02
Olives, Canned	569	0			0.005 ^		0.02
Peaches, Canned	755	0			0.005 - 0.15		0.02
Plums, Dried / Prunes	535	0			0.003 ^		0.02
Raisins	756	0			0.005 ^		0.02
Snap Peas	703	0			0.050 ^		0.02
Spinach, Frozen	188	0			0.005 - 0.015		0.02
Strawberries, Frozen	189	1	0.5	0.005 ^	0.003 ^		0.02
Sweet Peas, Frozen	189	0			0.015 ^		0.02
Sweet Potatoes	<u>177</u>	<u>0</u>			0.15 ^		0.02
TOTAL	9,225	6					
Acetamiprid (insecticide)							
Asparagus	709	1	0.1	0.021 ^	0.002 ^		0.80
Cabbage	707	5	0.7	0.010 - 0.046	0.010 ^		1.20
Cilantro	177	0			0.003 ^		0.01
Cranberries, Canned	379	0			0.002 ^		1.6
Cranberries, Frozen	150	4	2.7	0.003 - 0.013	0.002 ^		1.6
Canned	566	0			0.001 ^		0.40
Green Onions	707	1	0.1	0.010 ^	0.010 ^		4.5
Kale	707	77	10.9	0.017 - 3.1	0.010 ^		15
Kiwi Fruit	530	0			0.005 ^		0.01
Mangoes	532	0			0.001 - 0.002		0.01
Olives, Canned	569	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
Peaches, Canned	755	23	3	0.002 - 0.014	0.001 - 0.005		1.20
Plums, Dried / Prunes	567	3	0.5	0.002 - 0.003	0.002 ^		0.40
Raisins	756	95	12.6	0.002 - 0.18	0.001 - 0.003		0.35
Snap Peas	703	7	1	0.017 - 0.29	0.010 ^		0.60
Spinach, Frozen	188	12	6.4	0.002 - 0.054	0.001 - 0.002		3.00
Strawberries, Frozen	189	89	47.1	0.002 - 0.12	0.002 ^		0.60
Sweet Peas, Frozen	189	0			0.002 ^		0.40
Sweet Potatoes	177	0			0.005 ^		0.01
TOTAL	9,257	317					
Acetochlor (herbicide)							
Asparagus	680	0			0.005 ^		NT
Cilantro	177	0			0.006 ^		NT
Cranberries, Canned	379	0			0.030 ^		NT
Cranberries, Frozen	150	0			0.030 ^		NT
Canned	566	0			0.001 - 0.003		0.05
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	532	0			0.001 - 0.030		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.050		NT
Plums, Dried / Prunes	536	0			0.005 ^		NT
Raisins	756	0			0.001 - 0.003		NT
Spinach, Frozen	188	0			0.001 - 0.030		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.030 ^		NT
Sweet Potatoes	177	0			0.050 ^		NT
TOTAL	6,373	0					
Acibenzolar S methyl (plant activator)							
Asparagus	679	0			0.020 ^		NT
Cabbage	707	0			0.010 ^		1.0
Cilantro	177	0			0.012 ^		NT
Cranberries, Canned	379	0			0.030 ^		0.15
Cranberries, Frozen	150	0			0.030 ^		0.15
Canned	440	0			0.012 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.025 ^		1.0
Kiwi Fruit	530	0			0.080 ^		NT
Mangoes	261	0			0.030 ^		NT
Peaches, Canned	351	0			0.040 ^		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Raisins	692	0			0.004 - 0.024		NT
Spinach, Frozen	86	0			0.030 ^		1.0
Strawberries, Frozen	189	0			0.020 ^		0.15
Sweet Peas, Frozen	189	0			0.030 ^		NT
Sweet Potatoes	177	0			0.040 ^		NT
TOTAL	6,988	0					
Aclonifen (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Alachlor (herbicide)							
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	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	150	0			0.020 ^		NT
Canned	566	0			0.002 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.020		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.003 - 0.020		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	4,790	0					
Aldicarb (insecticide)							
Asparagus	470	0			0.030 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 - 0.003		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.002 - 0.005		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.001 - 0.020		NT
Plums, Dried / Prunes	410	0			0.030 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	188	0			0.002 - 0.005		NT
Strawberries, Frozen	157	0			0.030 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		0.1
TOTAL	7,419	0					
Aldicarb sulfone (metabolite of Aldicarb)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.003 - 0.025		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		0.1
TOTAL	7,091	0					
Aldicarb sulfoxide (metabolite of Aldicarb)							
Asparagus	118	0			0.005 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.006 ^		NT
Canned	566	0			0.006 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.055 ^		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	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.006 - 0.055		NT
Raisins	756	0			0.006 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.055 ^		0.1
TOTAL	5,624	0					
Allethrin (insecticide)							
Cabbage	707	0			0.020 ^		NT
Green Onions	707	0			0.020 ^		NT
Kiwi Fruit	530	0			0.080 ^		NT
Peaches, Canned	351	0			0.080 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.080 ^		NT
TOTAL	2,472	0					
Ametoctradin (fungicide)							
Cilantro	177	7	4	0.002 - 0.30	0.001 ^	V-7	NT
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Kale	707	44	6.2	0.003 - 22.9	0.002 ^		50
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	11	1.5	0.002 - 0.049	0.001 ^		8.0
Spinach, Frozen	188	49	26.1	0.001 - 3.4	0.001 ^		50.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	5,498	111					
Ametryn (herbicide)							
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,301	0					
Amicarbazone (herbicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Anilofos (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	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
Aspon (insecticide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,414	0					
Asulam (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Atraton (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Atrazine (herbicide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	4	0.6	0.005 - 0.011	0.005 ^	V-4	NT
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	4	2.1	0.001 - 0.004	0.001 - 0.010		0.25
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		NT
TOTAL	7,846	8					
Azinphos (insecticide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Azinphos methyl (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.020 ^		NT
Cilantro	177	0			0.006 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.006 ^		NT
Green Onions	707	0			0.020 ^		NT
Kale	707	0			0.020 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.005 - 0.010		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.005 - 0.006		NT
Plums, Dried / Prunes	567	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
Raisins	756	0			0.006 ^		NT
Snap Peas	703	0			0.020 ^		NT
Spinach, Frozen	188	0			0.005 - 0.010		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	9,257	0					
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)							
Asparagus	709	0			0.010 ^		NT
Cranberries, Canned	379	0			0.015 ^		NT
Cranberries, Frozen	150	0			0.015 ^		NT
Kale	707	0			0.020 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.015		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Snap Peas	703	0			0.020 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	5,665	0					
Azoxystrobin (fungicide)							
Asparagus	709	0			0.002 ^		0.04
Cabbage	707	27	3.8	0.002 - 0.13	0.002 ^		3.0
Cilantro	177	38	21.5	0.002 - 3.1	0.001 ^		30.0
Cranberries, Canned	379	2	0.5	0.001 - 0.013	0.001 ^		5.0
Cranberries, Frozen	150	1	0.7	0.001 ^	0.001 ^		5.0
Canned	566	1	0.2	0.002 ^	0.001 ^		0.5
Green Onions	707	235	33.2	0.002 - 0.46	0.002 ^		7.5
Kale	707	177	25	0.003 - 9.8	0.002 ^		25
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	22	4.1	0.001 - 0.009	0.001 ^		2.0
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	2	0.3	0.002 ^	0.001 - 0.010		2.0
Plums, Dried / Prunes	567	37	6.5	0.002 - 0.014	0.002 ^		2.0
Raisins	756	227	30	0.002 - 0.36	0.001 ^		2.0
Snap Peas	703	104	14.8	0.003 - 0.38	0.002 ^		3.0
Spinach, Frozen	188	45	23.9	0.001 - 3.5	0.001 ^		30.0
Strawberries, Frozen	189	36	19	0.002 - 0.086	0.002 ^		10.0
Sweet Peas, Frozen	189	5	2.6	0.003 - 0.025	0.001 ^		0.5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		8.0
TOTAL	9,257	959					
Beflubutamid (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	506	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	879	0					
Benalaxyl (fungicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	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
Bendiocarb (insecticide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Raisins	756	0			0.001 - 0.003		NT
Snap Peas	703	0			0.010 ^		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.003 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	9,080	0					
Benfluralin (herbicide)							
Asparagus	709	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,407	0					
Benoxacor (herbicide safener)							
Asparagus	709	0			0.010 ^		0.01
Cabbage	707	0			0.005 ^		0.01
Cilantro	177	0			0.001 ^		0.01
Cranberries, Canned	379	0			0.020 ^		0.01
Cranberries, Frozen	150	0			0.020 ^		0.01
Canned	566	0			0.001 ^		0.01
Green Onions	707	0			0.005 ^		0.01
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.003 - 0.020		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.040 ^		0.01
Spinach, Frozen	188	0			0.003 - 0.020		0.01
Strawberries, Frozen	189	0			0.010 ^		0.01
Sweet Peas, Frozen	189	0			0.020 ^		0.01
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.01
TOTAL	8,550	0					
Bensulfuron methyl (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	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
Bensulide (herbicide)							
Asparagus	709	0			0.004 ^		NT
Kale	707	2	0.3	0.017 - 0.093	0.010 ^		0.15
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.004 ^		NT
Spinach, Frozen	188	5	2.7	0.001 - 0.025	0.001 - 0.010		0.15
Strawberries, Frozen	189	0			0.004 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,270	7					
Bensulide oxygen analog (metabolite of Bensulide)							
Asparagus	709	0			0.002 ^		NT
Cranberries, Canned	379	1	0.3	0.003 ^	0.002 ^	V-1	NT
Cranberries, Frozen	150	0			0.002 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	261	0			0.002 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Spinach, Frozen	86	0			0.002 ^		0.15
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.002 ^		NT
TOTAL	3,411	1					
Bentazon (herbicide)							
Cranberries, Canned	379	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	261	0			0.050 ^		NT
Peaches, Canned	351	0			0.030 ^		NT
Spinach, Frozen	86	0			0.050 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		3.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		NT
TOTAL	2,123	0					
Benthiavali carb isopropyl (fungicide)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,160	0					
Benzobicyclon (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Benzovindiflupyr (fungicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Bifenazate (acaricide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	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	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		2.5
Snap Peas	703	2	0.3	0.13 - 0.15	0.015 ^		6.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.10
TOTAL	4,015	2					
BifenoX (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 - 0.003		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Bifenthrin (insecticide)							
Asparagus	709	0			0.002 ^		0.05
Cabbage	707	18	2.5	0.006 - 0.12	0.005 ^		4.0
Cilantro	177	18	10.2	0.002 - 1.1	0.001 ^		6.0
Cranberries, Canned	378	0			0.005 ^		1.8
Cranberries, Frozen	150	0			0.005 ^		1.8
Canned	566	0			0.001 ^		0.05
Green Onions	707	4	0.6	0.016 - 0.053	0.005 ^		0.05
Kale	707	190	26.9	0.002 - 2.6	0.001 ^		3.5
Kiwi Fruit	530	0			0.010 ^		0.05
Mangoes	532	0			0.001 - 0.005		0.05
Olives, Canned	569	1	0.2	0.002 ^	0.001 ^		0.05
Peaches, Canned	755	0			0.001 - 0.010		0.5
Plums, Dried / Prunes	567	1	0.2	0.002 ^	0.002 ^		0.05
Raisins	756	581	76.9	0.002 - 0.027	0.001 ^		0.2
Snap Peas	703	57	8.1	0.002 - 0.20	0.001 ^		0.6
Spinach, Frozen	188	11	5.9	0.001 - 0.056	0.001 - 0.005		0.2
Strawberries, Frozen	189	83	43.9	0.002 - 0.099	0.002 ^		3.0
Sweet Peas, Frozen	189	3	1.6	0.006 - 0.009	0.005 ^		0.05
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.05
TOTAL	9,256	967					
Bioallethrin (insecticide)							
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	942	0					
Biphenyl (fungicide)							
Kiwi Fruit	530	0			0.075 ^		NT
Peaches, Canned	351	0			0.075 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.075 ^		NT
TOTAL	1,058	0					
Bitertanol (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,356	0					
Boscalid (fungicide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	8	1.1	0.010 - 0.72	0.010 ^		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
Cilantro	177	69	39	0.002 - 2.2	0.001 ^		150
Cranberries, Canned	378	0			0.005 ^		13.0
Cranberries, Frozen	150	0			0.005 ^		13.0
Canned	566	4	0.7	0.002 ^	0.001 ^		2.5
Green Onions	707	5	0.7	0.011 - 0.18	0.010 ^		5.0
Kale	707	133	18.8	0.017 - 11.4	0.010 ^		60
Kiwi Fruit	530	2	0.4	0.063 - 0.17	0.015 ^	V-2	NT
Mangoes	532	11	2.1	0.004 - 0.034	0.003 - 0.005		1.5
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	6	0.8	0.002 ^	0.001 - 0.015		3.5
Plums, Dried / Prunes	567	37	6.5	0.003 - 0.032	0.003 ^		3.5
Raisins	756	622	82.3	0.002 - 1.0	0.001 ^		8.5
Snap Peas	703	20	2.8	0.017 - 0.48	0.010 ^		5.0
Spinach, Frozen	188	23	12.2	0.003 - 0.26	0.003 - 0.005		70
Strawberries, Frozen	189	67	35.4	0.003 - 0.11	0.003 ^		4.5
Sweet Peas, Frozen	189	1	0.5	0.010 ^	0.005 ^		0.6
Sweet Potatoes	177	0			0.015 ^		0.05
TOTAL	9,256	1,008					
Bromacil (herbicide)							
Asparagus	709	0			0.003 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	507	0			0.003 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Strawberries, Frozen	189	0			0.003 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	177	0			0.020 ^		NT
TOTAL	4,467	0					
Bromophos ethyl (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Bromopropylate (acaricide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	2,356	0					
Bromuconazole (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Bupirimate (fungicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	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
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,414	0					
Buprofezin (insecticide)							
Asparagus	649	0			0.001 - 0.002		NT
Cabbage	707	1	0.1	0.034 ^	0.010 ^		12.0
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	379	0			0.001 ^		2.5
Cranberries, Frozen	150	0			0.001 ^		2.5
Canned	566	0			0.001 ^		0.02
Green Onions	707	0			0.010 ^		NT
Kale	707	10	1.4	0.002 - 1.2	0.001 ^		60
Kiwi Fruit	530	3	0.6	0.001 - 0.003	0.001 ^	V-3	NT
Mangoes	532	0			0.001 ^		0.90
Olives, Canned	569	88	15.5	0.001 - 0.042	0.001 ^		3.5
Peaches, Canned	755	2	0.3	0.001 - 0.002	0.001 ^		9.0
Plums, Dried / Prunes	567	0			0.001 ^		1.9
Raisins	756	193	25.5	0.002 - 0.17	0.001 ^		2.5
Snap Peas	703	2	0.3	0.002 - 0.003	0.001 ^	V-2	NT
Spinach, Frozen	188	0			0.001 ^		35
Strawberries, Frozen	189	7	3.7	0.001 - 0.095	0.001 ^		2.5
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		NT
TOTAL	9,197	306					
Butachlor (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Butocarboxim (insecticide, acaricide)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,058	0					
Butocarboxim sulfone (metabolite of Butocarboxim)							
Kiwi Fruit	530	0			0.015 ^		NT
Peaches, Canned	351	0			0.015 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	1,058	0					
Butocarboxim sulfoxide (metabolite of Butocarboxim)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,058	0					
Butylate (herbicide)							
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	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
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,823	0					
Cadusafos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Captan (fungicide) (parent of THPI)							
Kale	707	0			0.10 ^		0.05
Snap Peas	<u>703</u>	<u>0</u>			0.10 ^		0.05
TOTAL	1,410	0					
Carbaryl (insecticide)							
Asparagus	709	6	0.8	0.003 - 3.4	0.003 ^		15
Cabbage	707	0			0.010 ^		21
Cilantro	158	2	1.3	0.017 - 0.026	0.003 ^	V-2	NT
Cranberries, Canned	379	0			0.002 ^		3.0
Cranberries, Frozen	150	2	1.3	0.003 - 0.004	0.002 ^		3.0
Canned	545	0			0.001 - 0.003		1.0
Green Onions	707	0			0.010 ^		NT
Kale	707	3	0.4	0.033 ^	0.020 ^		10
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.002 - 0.003		NT
Olives, Canned	569	0			0.003 ^		10
Peaches, Canned	670	0			0.001 - 0.005		10
Plums, Dried / Prunes	567	1	0.2	0.008 ^	0.003 ^		10
Raisins	693	11	1.6	0.002 - 0.12	0.001 ^		12
Snap Peas	703	0			0.020 ^		10
Spinach, Frozen	188	0			0.002 - 0.003		22
Strawberries, Frozen	189	9	4.8	0.007 - 0.10	0.003 ^		4.0
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.2
TOTAL	9,069	34					
Carbendazim - MBC (fungicide) (metabolite of Benomyl and Thiophanate Methyl)							
Asparagus	709	1	0.1	0.001 ^	0.001 ^	V-1	NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	2	1.1	0.002 - 0.040	0.001 ^	V-2	NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.010 ^		3.0
Kale	707	1	0.1	2.9 ^	0.015 ^	V-1	NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	27	5.1	0.001 - 0.067	0.001 - 0.010	V-27	NT
Olives, Canned	569	2	0.4	0.001 - 0.002	0.001 ^	V-2	NT
Peaches, Canned	755	15	2	0.002 - 0.030	0.001 - 0.010		3.0
Plums, Dried / Prunes	567	20	3.5	0.001 - 0.005	0.001 ^		0.5
Raisins	756	5	0.7	0.007 - 0.019	0.003 ^		5.0
Snap Peas	703	43	6.1	0.025 - 0.88	0.015 ^	V-43	NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Strawberries, Frozen	189	84	44.4	0.001 - 0.092	0.001 ^		7.0
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	8,728	200					

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
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)							
Asparagus	709	6	0.8	0.002 - 0.034	0.002 ^	V-6	NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	1	0.6	0.007 ^	0.003 ^	V-1	NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.005 ^		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	177	0			0.010 ^		NT
TOTAL	9,257	7					
Carbophenothion (insecticide)							
Cilantro	60	0			0.003 ^		NT
Canned	440	0			0.001 - 0.006		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	285	0			0.001 - 0.003		NT
Raisins	420	0			0.001 ^		NT
Spinach, Frozen	102	0			0.005 ^		NT
TOTAL	2,147	0					
Carboxin (fungicide)							
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	314	0			0.025 ^		NT
Cranberries, Frozen	125	0			0.025 ^		NT
Green Onions	687	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	445	0			0.003 - 0.025		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.025		NT
Sweet Peas, Frozen	157	0			0.025 ^		NT
TOTAL	4,073	0					
Carfentrazone (herbicide)							
Asparagus	680	0			0.005 ^		0.10
Cabbage	707	0			0.005 ^		0.10
Cilantro	177	0			0.005 ^		2.0
Cranberries, Canned	378	0			0.005 ^		0.10
Cranberries, Frozen	150	0			0.005 ^		0.10
Canned	566	0			0.005 ^		0.10
Green Onions	707	0			0.005 ^		0.10
Kale	707	0			0.002 ^		0.10
Kiwi Fruit	530	0			0.020 ^		0.10
Mangoes	532	0			0.003 - 0.005		0.10

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
Olives, Canned	569	0			0.003 ^		0.10
Peaches, Canned	755	0			0.005 - 0.020		0.10
Plums, Dried / Prunes	567	0			0.005 ^		0.10
Raisins	756	0			0.005 ^		0.10
Snap Peas	703	0			0.002 ^		0.10
Spinach, Frozen	188	0			0.003 - 0.005		0.10
Strawberries, Frozen	189	0			0.005 ^		0.10
Sweet Peas, Frozen	189	0			0.005 ^		0.10
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		0.10
TOTAL	9,227	0					
Chlorantraniliprole (insecticide)							
Asparagus	709	1	0.1	0.051 ^	0.010 ^		13
Cabbage	707	10	1.4	0.023 - 0.20	0.020 ^		4.0
Cilantro	177	61	34.5	0.003 - 0.29	0.002 - 0.005		25
Cranberries, Canned	379	0			0.005 ^		2.5
Cranberries, Frozen	150	4	2.7	0.005 - 0.008	0.005 ^		2.5
Canned	566	0			0.002 - 0.005		2.0
Green Onions	707	49	6.9	0.022 - 0.13	0.020 ^		3.0
Kale	707	144	20.4	0.017 - 7.6	0.010 ^		11
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.005 ^		4.0
Olives, Canned	569	0			0.005 ^		4.0
Peaches, Canned	755	4	0.5	0.003 - 0.006	0.002 - 0.010		2.5
Plums, Dried / Prunes	567	0			0.010 ^		2.5
Raisins	756	204	27	0.003 - 0.39	0.002 - 0.005		5.0
Snap Peas	703	82	11.7	0.017 - 0.18	0.010 ^		2.0
Spinach, Frozen	188	37	19.7	0.006 - 3.2	0.005 ^		13
Strawberries, Frozen	189	13	6.9	0.010 - 0.025	0.010 ^		1.0
Sweet Peas, Frozen	189	0			0.005 ^		2.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.30
TOTAL	9,257	609					
Chlordimeform (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Chlorethoxyfos (insecticide)							
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,006	0					
Chlorfenapyr (insecticide)							
Asparagus	709	1	0.1	0.66 ^	0.015 ^	X-1	0.01
Cabbage	707	0			0.005 ^		0.01
Cilantro	177	0			0.002 ^		0.01
Cranberries, Canned	378	0			0.025 ^		0.01
Cranberries, Frozen	150	0			0.025 ^		0.01
Canned	566	0			0.002 ^		0.01
Green Onions	707	0			0.005 ^		0.01
Kale	707	0			0.050 ^		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
Kiwi Fruit	530	0			0.040 ^		0.01
Mangoes	532	0			0.005 - 0.025		0.01
Olives, Canned	569	0			0.005 ^		0.01
Peaches, Canned	755	0			0.002 - 0.040		0.01
Plums, Dried / Prunes	567	0			0.015 ^		0.01
Raisins	756	0			0.002 ^		0.01
Snap Peas	703	1	0.1	0.083 ^	0.050 ^	X-1	0.01
Spinach, Frozen	188	0			0.005 - 0.025		0.01
Strawberries, Frozen	189	0			0.015 ^		0.01
Sweet Peas, Frozen	189	0			0.025 ^		0.01
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		0.01
TOTAL	9,256	2					
Chlorfenvinphos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	4,259	0					
Chlorimuron ethyl (herbicide)							
Cranberries, Canned	379	0			0.005 ^		0.02
Cranberries, Frozen	150	0			0.005 ^		0.02
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,007	0					
Chlorobenzilate (acaricide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Chloroneb (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Chlorothalonil (fungicide)							
Asparagus	709	0			0.020 ^		0.1
Mangoes	503	0			0.005 ^		1.0
Olives, Canned	569	0			0.005 ^		NT
Plums, Dried / Prunes	535	0			0.020 ^		0.2
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,505	0					
Chlorpropham (herbicide, growth regulator)							
Asparagus	709	0			0.020 ^		NT
Cabbage	707	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
Cilantro	177	7	4	0.002 ^	0.001 ^	V-7	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 - 0.006		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	1	0.2	0.026 ^	0.020 ^	V-1	NT
Mangoes	532	23	4.3	0.001 - 0.012	0.001 - 0.005	V-23	NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	738	0			0.001 - 0.020		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Raisins	756	8	1.1	0.002 - 0.007	0.001 ^	V-8	NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.020 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.020 ^		NT
TOTAL	7,829	39					

Chlorpyrifos (insecticide)

Asparagus	709	44	6.2	0.005 - 1.1	0.005 ^		5.0
Cabbage	707	0			0.005 ^		1.0
Cilantro	177	26	14.7	0.002 - 0.42	0.001 ^	X-2	0.1
Cranberries, Canned	378	0			0.015 ^		1.0
Cranberries, Frozen	150	0			0.015 ^		1.0
Canned	566	0			0.001 ^		0.1
Green Onions	707	3	0.4	0.005 - 0.060	0.005 ^		0.1
Kale	707	5	0.7	0.017 - 0.052	0.010 ^		1.0
Kiwi Fruit	530	5	0.9	0.017 - 0.031	0.010 ^		2.0
Mangoes	532	8	1.5	0.003 - 0.015	0.003 - 0.015		0.1
Olives, Canned	569	12	2.1	0.003 - 0.021	0.003 ^		0.1
Peaches, Canned	755	4	0.5	0.002 ^	0.001 - 0.010		0.1
Plums, Dried / Prunes	567	0			0.005 ^		0.1
Raisins	756	39	5.2	0.002 - 0.12	0.001 ^	X-2	0.01
Snap Peas	703	9	1.3	0.017 - 0.087	0.010 ^		0.1
Spinach, Frozen	188	0			0.003 - 0.015		0.1
Strawberries, Frozen	189	0			0.005 ^		0.2
Sweet Peas, Frozen	189	0			0.015 ^		0.1
Sweet Potatoes	177	1	0.6	0.010 ^	0.010 ^		0.1
TOTAL	9,256	156					

Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)

Asparagus	709	0			0.004 ^		5.0
Cabbage	707	0			0.010 ^		1.0
Cilantro	177	0			0.001 ^		0.1
Cranberries, Canned	379	0			0.005 ^		1.0
Cranberries, Frozen	150	0			0.005 ^		1.0
Canned	566	0			0.001 - 0.003		0.1
Green Onions	707	0			0.010 ^		0.1
Kale	707	0			0.003 ^		1.0
Kiwi Fruit	530	0			0.005 ^		2.0
Mangoes	532	0			0.001 - 0.005		0.1
Olives, Canned	569	0			0.001 ^		0.1
Peaches, Canned	755	0			0.001 - 0.005		0.1
Plums, Dried / Prunes	567	0			0.002 - 0.004		0.1
Raisins	756	0			0.001 - 0.003		0.01
Snap Peas	703	0			0.003 ^		0.1
Spinach, Frozen	188	0			0.001 - 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
Strawberries, Frozen	189	0			0.004 ^		0.2
Sweet Peas, Frozen	189	0			0.005 ^		0.1
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.1
TOTAL	9,257	0					
Chlorpyrifos methyl (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Chlorpyrifos methyl oxygen analog (insecticide metabolite)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Chlorsulfuron (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Chlorthiophos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Clethodim (herbicide)							
Cabbage	707	0			0.010 ^		3.0
Cilantro	177	0			0.002 ^		12.0
Cranberries, Canned	314	0			0.20 ^		0.50
Cranberries, Frozen	125	0			0.20 ^		0.50
Canned	566	0			0.002 ^		3.5
Green Onions	639	0			0.010 ^		2.0
Kale	707	0			0.010 ^		3.0
Mangoes	532	0			0.010 - 0.20		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	404	0			0.002 ^		0.20
Raisins	756	0			0.002 ^		NT
Snap Peas	703	0			0.010 ^		3.5
Spinach, Frozen	188	0			0.010 - 0.20		2.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.20 ^		3.5
TOTAL	6,576	0					
Clodinafop propargyl (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Clofentezine (insecticide)							
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.040 ^		1.0
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,823	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)							
Asparagus	709	0			0.005 ^		0.05
Cabbage	707	0			0.005 ^		0.10
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.070 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.070		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.002 ^		NT
Snap Peas	703	0			0.003 ^		0.05
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		0.05
Sweet Potatoes	<u>177</u>	<u>0</u>			0.070 ^		0.05
TOTAL	8,550	0					
Cloquintocet-mexyl (herbicide safener)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Cloransulam methyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)							
Asparagus	709	0			0.010 ^		0.02
Cabbage	707	0			0.010 ^		4.5
Cilantro	177	2	1.1	0.010 - 0.017	0.005 ^		0.02
Cranberries, Canned	379	0			0.025 ^		0.02
Cranberries, Frozen	150	0			0.025 ^		0.02
Canned	566	0			0.005 ^		0.02
Green Onions	707	0			0.010 ^		0.45
Kale	707	11	1.6	0.083 - 0.62	0.050 ^		3.0
Kiwi Fruit	530	0			0.035 ^		0.02
Mangoes	532	0			0.001 - 0.025		0.40
Olives, Canned	569	0			0.001 ^		0.02
Peaches, Canned	755	0			0.002 - 0.035		0.80
Plums, Dried / Prunes	567	0			0.010 ^		0.5
Raisins	756	27	3.6	0.005 - 0.074	0.005 ^		0.60
Snap Peas	703	0			0.050 ^		0.02
Spinach, Frozen	188	48	25.5	0.001 - 0.096	0.001 - 0.025		4.0
Strawberries, Frozen	189	0			0.010 ^		0.30
Sweet Peas, Frozen	189	0			0.025 ^		0.02
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		0.3
TOTAL	9,257	88					
Coumaphos (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	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
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	5,724	0					
Coumaphos oxygen analog (metabolite of Coumaphos)							
Asparagus	709	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.003 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.003 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,310	0					
Crotoxyphos (insecticide, acaricide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Crufomate (insecticide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Cumyluron (herbicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,414	0					
Cyanazine (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Cyantraniliprole (insecticide)							
Cilantro	177	1	0.6	0.008 ^	0.008 ^		20
Cranberries, Canned	379	0			0.005 ^		4.0
Cranberries, Frozen	150	0			0.005 ^		4.0
Canned	566	0			0.002 ^		1.0
Kale	707	84	11.9	0.017 - 2.8	0.010 ^		30
Kiwi Fruit	530	0			0.15 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		1.5
Peaches, Canned	755	0			0.002 - 0.15		1.5
Raisins	756	0			0.002 - 0.008		NT
Spinach, Frozen	188	1	0.5	0.007 ^	0.003 - 0.005		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
Sweet Peas, Frozen	189	0			0.005 ^		0.20
Sweet Potatoes	<u>177</u>	<u>0</u>			0.15 ^		0.15
TOTAL	5,675	86					
Cyazofamid (fungicide)							
Cilantro	177	0			0.006 ^		90
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.006 ^		0.08
Kale	707	31	4.4	0.008 - 3.1	0.005 ^		12.0
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.006 - 0.020		NT
Raisins	756	0			0.006 ^		1.5
Spinach, Frozen	188	3	1.6	0.017 - 0.024	0.010 ^		10
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		0.02
TOTAL	5,675	34					
Cyflufenamid (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	3,237	0					
Cyflumetofen (acaricide)							
Cranberries, Canned	379	0			0.020 ^		NT
Cranberries, Frozen	150	0			0.020 ^		NT
Kiwi Fruit	501	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.020		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,598	0					
Cyfluthrin (insecticide)							
Asparagus	709	0			0.004 ^		0.05
Cabbage	707	10	1.4	0.008 - 0.13	0.005 ^		2.5
Cilantro	177	8	4.5	0.012 - 0.72	0.008 - 0.025		6.0
Cranberries, Canned	378	0			0.050 ^		0.05
Cranberries, Frozen	150	0			0.050 ^		0.05
Canned	566	0			0.025 ^		0.15
Green Onions	707	1	0.1	0.026 ^	0.005 ^		0.05
Kale	707	92	13	0.013 - 1.6	0.008 ^		7.0
Kiwi Fruit	530	0			0.045 ^		0.05
Mangoes	532	0			0.003 - 0.050		0.05
Olives, Canned	569	0			0.003 ^		0.05
Peaches, Canned	755	0			0.008 - 0.045		0.3
Plums, Dried / Prunes	567	0			0.004 ^		0.3
Raisins	756	14	1.9	0.012 - 0.069	0.008 ^		3.5
Snap Peas	703	4	0.6	0.013 - 0.029	0.008 ^		0.25

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
Spinach, Frozen	188	43	22.9	0.016 - 1.3	0.003 - 0.050		6.0
Strawberries, Frozen	189	0			0.004 ^		0.05
Sweet Peas, Frozen	189	0			0.050 ^		0.25
Sweet Potatoes	<u>177</u>	<u>0</u>			0.045 ^		0.05
TOTAL	9,256	172					
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)							
Asparagus	709	1	0.1	0.065 ^	0.005 ^	X-1	0.01
Cabbage	707	9	1.3	0.012 - 0.045	0.008 ^		0.4
Cilantro	177	5	2.8	0.005 - 0.19	0.003 ^	X-4	0.01
Cranberries, Canned	378	0			0.005 ^		0.01
Cranberries, Frozen	150	0			0.005 ^		0.01
Canned	566	0			0.003 ^		0.10
Green Onions	707	0			0.008 ^		0.01
Kiwi Fruit	530	1	0.2	0.022 ^	0.015 ^	X-1	0.01
Mangoes	532	2	0.4	0.004 - 0.007	0.003 - 0.005		0.01
Olives, Canned	569	1	0.2	0.007 ^	0.003 ^		0.01
Peaches, Canned	755	0			0.003 - 0.015		0.50
Plums, Dried / Prunes	567	1	0.2	0.062 ^	0.005 ^		0.50
Raisins	756	3	0.4	0.005 - 0.019	0.003 ^		0.01
Spinach, Frozen	188	9	4.8	0.004 - 0.51	0.003 - 0.005	X-4	0.01
Strawberries, Frozen	189	0			0.005 ^		0.01
Sweet Peas, Frozen	157	0			0.005 ^		0.01
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.02
TOTAL	7,814	32					
Cyhalothrin, Lambda (includes gamma isomer)							
Kale	707	44	6.2	0.003 - 0.91	0.002 ^	X-16	0.01
Snap Peas	<u>703</u>	<u>134</u>	19.1	0.003 - 0.073	0.002 ^		0.20
TOTAL	1,410	178					
Cymoxanil (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cilantro	177	0			0.003 ^		19
Cranberries, Canned	379	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Canned	566	0			0.003 - 0.010		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.010 - 0.050		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.003 - 0.020		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.010 - 0.020		0.10
Spinach, Frozen	188	0			0.010 - 0.050		19
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	6,433	0					
Cypermethrin (insecticide)							
Asparagus	709	2	0.3	0.084 - 0.81	0.010 ^	X-2	0.05
Cabbage	707	12	1.7	0.015 - 1.2	0.010 ^		2.0
Cilantro	177	20	11.3	0.037 - 1.1	0.022 ^		10
Cranberries, Canned	378	0			0.050 ^		0.8
Cranberries, Frozen	150	0			0.050 ^		0.8
Canned	566	0			0.075 ^		0.05
Green Onions	707	131	18.5	0.010 - 0.27	0.010 ^		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
Kale	707	171	24.2	0.020 - 5.3	0.012 - 0.040		14.0
Kiwi Fruit	530	0			0.070 ^		0.05
Mangoes	532	2	0.4	0.011 - 0.014	0.010 - 0.050		0.70
Olives, Canned	569	0			0.010 ^		0.05
Peaches, Canned	755	0			0.022 - 0.070		1
Plums, Dried / Prunes	567	1	0.2	0.021 ^	0.010 ^		1
Raisins	756	0			0.022 ^		2
Snap Peas	703	77	11	0.020 - 0.56	0.012 ^		0.5
Spinach, Frozen	188	59	31.4	0.010 - 5.3	0.010 - 0.050		10
Strawberries, Frozen	189	0			0.010 ^		0.05
Sweet Peas, Frozen	189	0			0.050 ^		0.1
Sweet Potatoes	<u>177</u>	<u>0</u>			0.070 ^		0.1
TOTAL	9,256	475					
Cyphenothrin (insecticide)							
Asparagus	709	0			0.015 ^		NT
Cabbage	707	0			0.008 ^		NT
Cranberries, Canned	378	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Green Onions	707	0			0.008 ^		NT
Kale	707	0			0.050 ^		NT
Kiwi Fruit	530	0			0.060 ^		NT
Mangoes	532	0			0.010 - 0.050		NT
Olives, Canned	538	0			0.010 ^		NT
Peaches, Canned	351	0			0.060 ^		NT
Plums, Dried / Prunes	535	0			0.015 ^		NT
Snap Peas	703	0			0.050 ^		NT
Spinach, Frozen	188	0			0.010 - 0.050		NT
Strawberries, Frozen	189	0			0.015 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.060 ^		NT
TOTAL	7,290	0					
Cyproconazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,465	0					
Cyprodinil (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		1.0
Cilantro	177	5	2.8	0.002 - 0.005	0.001 ^		3.0
Cranberries, Canned	378	0			0.005 ^		3.0
Cranberries, Frozen	150	0			0.005 ^		3.0
Canned	566	0			0.001 - 0.003		0.6
Green Onions	707	2	0.3	0.016 - 0.019	0.005 ^		4.0
Kale	707	8	1.1	0.005 - 0.82	0.003 ^		10.0
Kiwi Fruit	530	7	1.3	0.35 - 0.83	0.015 ^		1.8
Mangoes	532	0			0.003 - 0.005		1.2
Olives, Canned	569	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
Peaches, Canned	755	12	1.6	0.002 - 0.015	0.001 - 0.015		2.0
Plums, Dried / Prunes	567	16	2.8	0.005 - 0.018	0.005 ^		2.0
Raisins	756	144	19	0.003 - 0.13	0.003 ^		5.0
Spinach, Frozen	188	0			0.003 - 0.005		50
Strawberries, Frozen	189	35	18.5	0.006 - 0.24	0.005 ^		5.0
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.015 ^		0.01
TOTAL	8,553	229					
Cyprosulfamide (herbicide safener)							
Cranberries, Canned	379	0			0.004 ^		NT
Cranberries, Frozen	150	0			0.004 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.004		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.004		NT
Sweet Peas, Frozen	189	0			0.004 ^		NT
TOTAL	2,537	0					
Cyromazine (insect growth regulator)							
Cranberries, Canned	379	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Canned	545	0			0.008 ^		3.0
Kiwi Fruit	530	0			0.10 ^		NT
Mangoes	329	0			0.005 - 0.050		0.3
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.10 ^		NT
Spinach, Frozen	188	0			0.005 - 0.050		7.0
TOTAL	3,041	0					
DCPA (herbicide)							
Asparagus	709	3	0.4	0.002 - 0.012	0.002 ^	V-3	NT
Cabbage	707	1	0.1	0.013 ^	0.005 ^		5.0
Cilantro	177	119	67.2	0.002 - 0.16	0.001 ^		5.0
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		2.0
Green Onions	707	117	16.5	0.005 - 0.22	0.005 ^		1.0
Kale	707	400	56.6	0.002 - 0.85	0.001 ^		5.0
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.020		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	59	8.4	0.002 - 0.011	0.001 ^	V-59	NT
Spinach, Frozen	188	13	6.9	0.001 - 0.003	0.001 - 0.005	V-13	NT
Strawberries, Frozen	189	0			0.002 ^		2.0
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.020 ^		2.0
TOTAL	9,256	712					
DEF - Tribufos (herbicide, plant growth regulator)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	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)							
Asparagus	709	0			0.015 ^		0.05
Cabbage	707	0			0.008 ^		0.05
Cilantro	177	0			0.012 ^		0.05
Cranberries, Canned	378	0			0.050 ^		0.05
Cranberries, Frozen	150	0			0.050 ^		0.05
Canned	566	0			0.040 ^		0.05
Green Onions	707	66	9.3	0.008 - 0.095	0.008 ^		1.5
Kale	707	4	0.6	0.010 - 0.58	0.006 ^	X-1	0.05
Kiwi Fruit	530	0			0.12 ^		0.05
Mangoes	502	0			0.001 - 0.050		0.05
Olives, Canned	569	0			0.001 ^		0.05
Peaches, Canned	755	0			0.012 - 0.12		0.05
Plums, Dried / Prunes	567	0			0.015 ^		0.05
Raisins	756	0			0.012 ^		0.05
Snap Peas	703	14	2	0.010 - 0.098	0.006 ^	X-4	0.05
Spinach, Frozen	188	0			0.001 - 0.050		0.05
Strawberries, Frozen	189	0			0.015 ^		0.05
Sweet Peas, Frozen	189	0			0.050 ^		0.05
Sweet Potatoes	177	0			0.12 ^		0.05
TOTAL	9,226	84					
Demeton-O (metabolite of the insecticide Demeton)							
Mangoes	271	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Demeton-S (metabolite of Demeton)							
Mangoes	241	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
TOTAL	912	0					
Demeton-S sulfone (metabolite of Demeton-S)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Desethyl atrazine (herbicide metabolite)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	102	1	1	0.013 ^	0.003 ^		0.25
TOTAL	942	1					
Desmedipham (herbicide)							
Kiwi Fruit	530	0			0.060 ^		NT
Peaches, Canned	351	0			0.030 ^		NT
Spinach, Frozen	86	0			0.005 ^		6.0
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.030 ^		NT
TOTAL	1,333	0					
Desmetryn (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	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Dialifos (insecticide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Diazinon (insecticide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.002 ^		0.70
Cilantro	177	11	6.2	0.002 - 0.021	0.001 ^	V-11	NT
Cranberries, Canned	378	0			0.005 ^		0.50
Cranberries, Frozen	150	0			0.005 ^		0.50
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.002 ^		0.75
Kale	707	2	0.3	0.002 - 0.30	0.001 ^		0.70
Kiwi Fruit	530	0			0.010 ^		0.75
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		0.20
Plums, Dried / Prunes	567	0			0.005 ^		0.20
Raisins	756	0			0.001 ^		0.75
Snap Peas	703	0			0.001 ^		0.50
Spinach, Frozen	188	1	0.5	0.006 ^	0.001 - 0.005		0.70
Strawberries, Frozen	189	1	0.5	0.008 ^	0.005 ^		0.50
Sweet Peas, Frozen	189	0			0.005 ^		0.50
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.10
TOTAL	9,256	15					
Diazinon oxygen analog (metabolite of Diazinon)							
Cabbage	707	0			0.001 ^		0.70
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	346	0			0.005 ^		0.50
Cranberries, Frozen	101	0			0.005 ^		0.50
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.001 ^		0.75
Kale	707	0			0.001 ^		0.70
Kiwi Fruit	530	0			0.010 ^		0.75
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		0.20
Raisins	756	0			0.001 ^		0.75
Snap Peas	703	0			0.001 ^		0.50
Spinach, Frozen	188	0			0.001 - 0.005		0.70
Sweet Peas, Frozen	189	0			0.005 ^		0.50
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.10
TOTAL	7,710	0					
Dichlobenil (herbicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	314	0			0.002 ^		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
Cranberries, Frozen	150	0			0.002 ^		0.15
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		0.15
Plums, Dried / Prunes	567	0			0.010 ^		0.15
Raisins	756	0			0.001 ^		0.15
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	157	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,750	0					
Dichlofenthion (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Dichlormid (herbicide safener)							
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	532	0			0.005 - 0.020		NT
Olives, Canned	569	0			0.020 ^		NT
Peaches, Canned	351	0			0.040 ^		0.05
Spinach, Frozen	188	0			0.005 - 0.020		0.05
Sweet Peas, Frozen	<u>157</u>	<u>0</u>			0.005 ^		0.05
TOTAL	2,855	0					
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)							
Asparagus	709	0			0.020 ^		0.5
Cabbage	707	0			0.010 ^		1
Cilantro	177	0			0.005 ^		0.5
Cranberries, Canned	378	0			0.005 ^		0.5
Cranberries, Frozen	150	0			0.005 ^		0.5
Canned	566	0			0.002 ^		0.5
Green Onions	707	0			0.010 ^		0.5
Kiwi Fruit	530	0			0.010 ^		0.5
Mangoes	532	0			0.005 - 0.020		0.5
Olives, Canned	569	0			0.020 ^		0.5
Peaches, Canned	755	0			0.002 - 0.010		0.5
Plums, Dried / Prunes	567	0			0.020 ^		0.5
Raisins	756	0			0.005 ^		0.5
Snap Peas	703	0			0.050 ^		0.5
Spinach, Frozen	188	0			0.005 - 0.020		3
Strawberries, Frozen	189	1	0.5	0.069 ^	0.020 ^		1
Sweet Peas, Frozen	157	0			0.005 ^		0.5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.5
TOTAL	8,517	1					
Diclofop methyl (herbicide)							
Asparagus	709	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.001 ^		NT
Spinach, Frozen	102	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
Strawberries, Frozen	189	0			0.001 ^		NT
TOTAL	1,567	0					
Dicloran (fungicide)							
Asparagus	709	0			0.016 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		10
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	1	0.2	0.004 ^	0.001 - 0.010	V-1	NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.020		20
Plums, Dried / Prunes	567	0			0.016 ^		15
Raisins	756	1	0.1	0.004 ^	0.002 ^		10
Snap Peas	703	0			0.030 ^		NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Strawberries, Frozen	189	0			0.016 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	177	36	20.3	0.091 - 2.5	0.020 ^		10
TOTAL	8,549	38					
Diclosulam (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
TOTAL	942	0					
Dicofol Total (insecticide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	1	0.2	0.003 ^	0.003 ^	V-1	NT
Spinach, Frozen	102	0			0.003 ^		NT
TOTAL	942	1					
Dicofol o,p' (isomer of Dicofol)							
Kiwi Fruit	530	0			0.015 ^		NT
Peaches, Canned	351	0			0.015 ^		5.0
Sweet Potatoes	177	0			0.015 ^		NT
TOTAL	1,058	0					
Dicofol p,p' (isomer of Dicofol)							
Asparagus	709	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	261	0			0.005 ^		NT
Peaches, Canned	755	0			0.001 - 0.025		5.0
Plums, Dried / Prunes	567	0			0.010 ^		5.0
Raisins	756	2	0.3	0.002 - 0.005	0.001 ^		20.0
Spinach, Frozen	86	0			0.005 ^		NT
Strawberries, Frozen	189	0			0.010 ^		10.0

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
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		NT
TOTAL	5,490	2					
Dicrotophos (insecticide)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,845	0					
Diethofencarb (fungicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Difenoconazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	3	0.4	0.010 - 0.023	0.005 ^		2.0
Cilantro	177	2	1.1	0.002 ^	0.001 ^	V-2	NT
Cranberries, Canned	379	1	0.3	0.012 ^	0.002 ^		0.60
Cranberries, Frozen	150	0			0.002 ^		0.60
Canned	566	0			0.010 ^		NT
Green Onions	707	23	3.3	0.005 - 0.12	0.005 ^		6.0
Kale	707	29	4.1	0.002 - 2.4	0.001 ^		35
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		0.07
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		2.5
Plums, Dried / Prunes	567	0			0.010 ^		2.5
Raisins	756	163	21.6	0.002 - 0.19	0.001 ^		6.0
Spinach, Frozen	188	3	1.6	0.010 - 0.035	0.001 - 0.002	V-3	NT
Strawberries, Frozen	189	0			0.010 ^		2.5
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		4.0
TOTAL	8,554	224					
Diflubenzuron (insecticide)							
Asparagus	709	1	0.1	0.015 ^	0.002 ^	V-1	NT
Cilantro	177	0			0.001 - 0.003		NT
Cranberries, Canned	379	1	0.3	0.020 ^	0.005 ^	V-1	NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 - 0.003		NT
Kale	707	0			0.005 ^		9.0
Kiwi Fruit	530	0			0.080 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.080		0.50
Plums, Dried / Prunes	567	0			0.002 ^		0.50
Raisins	756	1	0.1	0.034 ^	0.001 - 0.003	V-1	NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	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
Sweet Potatoes	<u>177</u>	<u>0</u>			0.080 ^		NT
TOTAL	6,865	3					
Diflufenzopyr (herbicide)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	58	0			0.005 ^		NT
Spinach, Frozen	<u>86</u>	<u>0</u>			0.005 ^		NT
TOTAL	673	0					
Dimepiperate (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Dimethenamid (herbicide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		0.01
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.01
TOTAL	7,846	0					
Dimethipin (plant growth regulator)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.020 ^		NT
TOTAL	102	0					
Dimethoate (insecticide) (parent of Omethoate)							
Asparagus	709	1	0.1	0.008 ^	0.005 ^		0.15
Cabbage	707	0			0.010 ^		NT
Cilantro	177	1	0.6	0.006 ^	0.001 ^	V-1	NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	3	0.4	0.025 - 0.99	0.015 ^		2.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	2	0.4	0.005 - 0.010	0.001 - 0.002	V-2	NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.002 ^		NT
Snap Peas	703	112	15.9	0.025 - 3.2	0.015 ^	X-1	2.0
Spinach, Frozen	188	2	1.1	0.002 - 0.003	0.001 - 0.002	V-2	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
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	19	10.1	0.004 - 0.058	0.002 ^		2.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	9,257	140					
Dimethomorph (fungicide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	2	0.3	0.015 - 0.029	0.010 ^		6.0
Cilantro	177	7	4	0.002 - 0.30	0.001 - 0.003		30.0
Cranberries, Canned	379	2	0.5	0.021 - 0.25	0.020 ^	V-2	NT
Cranberries, Frozen	150	0			0.020 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	55	7.8	0.010 - 0.27	0.010 ^		15.0
Kale	707	29	4.1	0.050 - 12.2	0.030 ^		30.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.020		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Raisins	756	12	1.6	0.002 - 0.053	0.001 ^		7.0
Snap Peas	703	0			0.030 ^		NT
Spinach, Frozen	188	12	6.4	0.003 - 0.17	0.003 - 0.020		30.0
Strawberries, Frozen	189	1	0.5	0.007 ^	0.003 ^		0.90
Sweet Peas, Frozen	189	0			0.020 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	9,257	120					
Diniconazole (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Dinotefuran (insecticide)							
Asparagus	679	0			0.003 ^		0.01
Cabbage	707	0			0.010 ^		1.4
Cilantro	177	1	0.6	0.028 ^	0.006 ^		5.0
Cranberries, Canned	379	0			0.040 ^		0.2
Cranberries, Frozen	150	0			0.040 ^		0.2
Canned	566	0			0.006 ^		0.01
Green Onions	707	0			0.010 ^		5.0
Kale	707	11	1.6	0.083 - 1.4	0.050 ^		15.0
Kiwi Fruit	530	0			0.015 ^		0.01
Mangoes	532	0			0.003 - 0.040		0.01
Olives, Canned	569	0			0.003 ^		0.01
Peaches, Canned	755	0			0.006 - 0.015		2.0
Plums, Dried / Prunes	567	0			0.003 ^		2.0
Raisins	756	11	1.5	0.010 - 0.28	0.006 ^		2.5
Snap Peas	703	0			0.050 ^		0.01
Spinach, Frozen	188	1	0.5	0.014 ^	0.003 - 0.040		5.0
Strawberries, Frozen	189	0			0.003 ^		0.01
Sweet Peas, Frozen	189	0			0.040 ^		0.01
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.05
TOTAL	9,227	24					
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
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Dioxathion (insecticide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Diphenamid (herbicide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	4,259	0					
Diphenylamine - DPA (plant growth regulator)							
Asparagus	709	2	0.3	0.003 - 0.010	0.002 ^	V-2	NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.065 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.010 - 0.065		NT
Plums, Dried / Prunes	536	40	7.5	0.002 - 0.007	0.002 ^	V-40	NT
Raisins	756	1	0.1	0.005 ^	0.003 ^	V-1	NT
Spinach, Frozen	102	1	1	0.002 ^	0.001 ^	V-1	NT
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.065 ^		NT
TOTAL	6,751	44					
Dipropetryn (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Disulfoton (insecticide)							
Cabbage	707	0			0.005 ^		0.75
Canned	440	0			0.002 - 0.005		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	670	0			0.002 - 0.050		NT
Raisins	504	0			0.002 - 0.005		NT
Snap Peas	703	0			0.050 ^		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.050 ^		NT
TOTAL	5,380	0					
Disulfoton oxygen analog (metabolite of Disulfoton)							
Asparagus	709	0			0.001 ^		0.1
Cilantro	157	0			0.001 - 0.004		NT
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	261	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Plums, Dried / Prunes	567	0			0.001 ^		NT
Raisins	756	0			0.001 - 0.004		NT
Snap Peas	703	0			0.030 ^		NT
Spinach, Frozen	86	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	6,174	0					
Disulfoton sulfone (metabolite of Disulfoton)							
Asparagus	709	0			0.020 ^		0.1
Cabbage	707	0			0.010 ^		0.75
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 - 0.025		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.040 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.020 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,485	0					
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	0			0.003 ^		NT
Snap Peas	703	0			0.10 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,664	0					
Disulfoton sulfoxide (metabolite of Disulfoton)							
Asparagus	709	0			0.005 ^		0.1
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	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
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.020 ^		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	7,136	0					
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Snap Peas	703	0			0.040 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,761	0					
Ditalimfos (fungicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Dithiopyr (herbicide)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	<u>351</u>	<u>0</u>			0.010 ^		NT
TOTAL	881	0					
Diuron (herbicide)							
Asparagus	709	2	0.3	0.002 - 0.006	0.002 ^		7
Cilantro	177	0			0.004 ^		NT
Cranberries, Canned	379	0			0.010 ^		0.1
Cranberries, Frozen	150	0			0.010 ^		0.1
Canned	566	0			0.004 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	1	0.2	0.035 ^	0.010 ^	V-1	NT
Olives, Canned	569	0			0.010 ^		1
Peaches, Canned	755	0			0.004 - 0.015		0.1
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.004 ^		0.05
Spinach, Frozen	188	0			0.010 ^		NT
Strawberries, Frozen	158	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	6,402	3					
DMST (4-dimethylaminosulphotosluidide) (metabolite of Tolyfluamid)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Dodine (fungicide)							
Mangoes	271	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
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	942	0					
Emamectin (insecticide)							
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		0.100
TOTAL	942	0					
Emamectin benzoate ¹ (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		0.050
Cilantro	157	0			0.001 - 0.006		NT
Canned	566	0			0.001 - 0.003		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	26	3.7	0.003 - 0.090	0.002 ^	X-2	0.050
Peaches, Canned	404	0			0.001 - 0.003		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.001 - 0.003		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	5,469	26					
Endosulfan I (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		4.0
Cilantro	177	0			0.005 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.005 ^		2.0
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.008 ^		2.0
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.005 - 0.030		2.0
Plums, Dried / Prunes	567	0			0.010 ^		2.0
Raisins	756	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Strawberries, Frozen	189	0			0.010 ^		2.0
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		0.15
TOTAL	8,553	0					
Endosulfan II (isomer of Endosulfan)							
Asparagus	679	0			0.015 ^		NT
Cabbage	707	0			0.005 ^		4.0
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		2.0
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.018 ^		2.0
Kiwi Fruit	530	0			0.085 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.085		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
Plums, Dried / Prunes	567	0			0.015 ^		2.0
Raisins	735	0			0.001 ^		NT
Spinach, Frozen	158	0			0.003 - 0.005		NT
Strawberries, Frozen	189	0			0.015 ^		2.0
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.085 ^		0.15
TOTAL	8,472	0					
Endosulfan sulfate (metabolite of Endosulfan)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		4.0
Cranberries, Canned	378	0			0.015 ^		NT
Cranberries, Frozen	150	0			0.015 ^		NT
Canned	566	0			0.005 ^		2.0
Green Onions	707	0			0.005 ^		NT
Kale	707	1	0.1	0.003 ^	0.002 ^		2.0
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	474	0			0.003 - 0.015		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.005 - 0.040		2.0
Plums, Dried / Prunes	567	0			0.005 ^		2.0
Raisins	756	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.015		NT
Strawberries, Frozen	189	0			0.005 ^		2.0
Sweet Peas, Frozen	157	0			0.015 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		0.15
TOTAL	8,286	1					
EPN (insecticide)							
Kale	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.040 ^		NT
Snap Peas	703	0			0.005 ^		NT
Spinach, Frozen	102	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		NT
TOTAL	3,410	0					
Epoxiconazole (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
EPTC (herbicide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	177	7	4	0.002 - 0.005	0.001 ^	V-7	NT
Cranberries, Canned	346	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		0.1
Kiwi Fruit	530	0			0.035 ^		NT
Mangoes	261	0			0.005 ^		NT
Peaches, Canned	755	0			0.001 - 0.035		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	86	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
Sweet Peas, Frozen	157	0			0.005 ^		0.08
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		0.1
TOTAL	5,375	7					
Esfenvalerate+Fenvalerate Total (insecticide)							
Asparagus	709	0			0.005 ^		0.05
Cabbage	707	2	0.3	0.006 - 0.039	0.005 ^		3.0
Cilantro	177	0			0.002 ^		0.05
Cranberries, Canned	378	0			0.050 ^		0.05
Cranberries, Frozen	150	0			0.050 ^		0.05
Canned	566	0			0.008 ^		0.05
Green Onions	707	0			0.005 ^		0.05
Mangoes	261	0			0.050 ^		0.05
Peaches, Canned	404	1	0.2	0.004 ^	0.002 ^		3.0
Plums, Dried / Prunes	567	2	0.4	0.005 - 0.010	0.005 ^		3.0
Raisins	756	39	5.2	0.004 - 0.041	0.002 ^		0.05
Spinach, Frozen	86	0			0.050 ^		0.05
Strawberries, Frozen	189	0			0.005 ^		0.05
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.050 ^		0.5
TOTAL	5,846	44					
Esfenvalerate (isomer of Fenvalerate)							
Kale	707	1	0.1	0.026 ^	0.003 ^		0.05
Kiwi Fruit	530	11	2.1	0.035 - 0.14	0.035 ^		0.5
Mangoes	271	0			0.005 ^		0.05
Olives, Canned	569	0			0.005 ^		0.05
Peaches, Canned	351	0			0.035 ^		3.0
Snap Peas	703	10	1.4	0.005 - 0.059	0.003 ^		0.5
Spinach, Frozen	102	0			0.005 ^		0.05
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		0.05
TOTAL	3,410	22					
Ethaboxam (fungicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Ethalfuralin (herbicide)							
Asparagus	709	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Canned	566	0			0.002 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.003		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.001 - 0.003		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	6,432	0					
Ethametsulfuron methyl (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	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
Ethiofencarb (insecticide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.002 ^		NT
Canned	545	0			0.002 - 0.008		NT
Green Onions	639	0			0.010 - 0.025		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	387	0			0.008 ^		NT
Raisins	735	0			0.002 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	4,132	0					
Ethiofencarb sulfone (metabolite of Ethiofencarb)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Ethiofencarb sulfoxide (metabolite of Ethiofencarb)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Ethion (insecticide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	5,317	0					
Ethion mono oxon (metabolite of Ethion)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	211	0			0.001 ^		NT
Olives, Canned	474	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	<u>756</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,588	0					
Ethiprole (insecticide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Ethofumesate (herbicide)							
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	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
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,000	0					
Ethoprop (insecticide)							
Cabbage	707	0			0.010 ^		0.02
Cilantro	177	2	1.1	0.005 - 0.008	0.003 ^	V-2	NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.02
TOTAL	7,085	2					
Ethoxyquin (plant growth regulator)							
Kale	707	0			0.014 ^		NT
Mangoes	261	0			0.005 ^		NT
Snap Peas	703	0			0.014 ^		NT
Spinach, Frozen	86	0			0.005 ^		NT
Sweet Peas, Frozen	<u>157</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,914	0					
Ethylan (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Etofenprox (insecticide)							
Asparagus	709	0			0.025 ^		5.0
Cilantro	177	0			0.002 ^		5.0
Cranberries, Canned	346	0			0.010 ^		5.0
Cranberries, Frozen	125	0			0.010 ^		5.0
Canned	566	0			0.002 ^		5.0
Kale	707	0			0.001 ^		5.0
Kiwi Fruit	530	4	0.8	0.058 - 0.089	0.035 ^		5.0
Mangoes	532	0			0.001 - 0.010		5.0
Olives, Canned	538	0			0.001 ^		5.0
Peaches, Canned	755	0			0.002 - 0.035		5.0
Plums, Dried / Prunes	567	0			0.025 ^		5.0
Raisins	756	0			0.002 ^		5.0
Snap Peas	703	0			0.001 ^		5.0
Spinach, Frozen	188	0			0.001 - 0.010		5.0
Strawberries, Frozen	189	0			0.025 ^		5.0
Sweet Peas, Frozen	189	0			0.010 ^		5.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		5.0
TOTAL	7,754	4					

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
Etoxazole (acaricide)							
Cabbage	707	0			0.004 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.001 ^		0.50
Cranberries, Frozen	150	0			0.001 ^		0.50
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.004 ^		NT
Kiwi Fruit	530	0			0.20 ^		NT
Mangoes	532	0			0.001 ^		0.20
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.20		1.0
Raisins	756	64	8.5	0.002 - 0.043	0.001 ^		1.5
Spinach, Frozen	188	2	1.1	0.002 - 0.004	0.001 ^	V-2	NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	6,205	66					
Etridiazole (fungicide)							
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	314	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.005 ^		NT
Sweet Peas, Frozen	157	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,382	0					
Etrifos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Famoxadone (fungicide)							
Asparagus	709	0			0.025 ^		NT
Cilantro	177	10	5.6	0.012 - 0.44	0.002 - 0.008		25
Cranberries, Canned	379	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Canned	566	0			0.008 - 0.015		NT
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	532	0			0.010 - 0.050		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.008 - 0.050		NT
Plums, Dried / Prunes	567	0			0.025 ^		NT
Raisins	756	0			0.008 ^		4.0
Spinach, Frozen	188	9	4.8	0.021 - 4.9	0.010 - 0.050		50
Strawberries, Frozen	189	0			0.025 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.050 ^		NT
TOTAL	6,433	19					
Famphur (insecticide)							
Mangoes	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
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fenamidone (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	5	0.7	0.017 - 0.10	0.010 ^		5.0
Cilantro	177	7	4	0.004 - 0.082	0.002 ^		60
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	2	0.3	0.015 - 0.064	0.010 ^		1.5
Kale	707	57	8.1	0.008 - 15.3	0.005 ^		60
Kiwi Fruit	530	0			0.060 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.060		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.002 ^		1.0
Spinach, Frozen	188	31	16.5	0.001 - 0.71	0.001 ^		60
Strawberries, Frozen	189	0			0.005 ^		0.02
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.060 ^		0.02
TOTAL	8,554	102					
Fenamiphos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	0			0.001 ^		0.3
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	5,317	0					
Fenamiphos sulfone (metabolite of Fenamiphos)							
Cabbage	707	0			0.005 ^		NT
Cilantro	158	0			0.002 - 0.010		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.005		NT
Raisins	756	0			0.002 ^		0.3
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	5,298	0					
Fenamiphos sulfoxide (metabolite of Fenamiphos)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Canned	566	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
Green Onions	686	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Raisins	756	0			0.002 ^		0.3
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	177	0			0.010 ^		NT
TOTAL	5,296	0					
Fenarimol (fungicide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.015		NT
Raisins	756	0			0.002 ^		0.1
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.015 ^		NT
TOTAL	6,381	0					
Fenazaquin (insecticide, acaricide)							
Asparagus	619	0			0.005 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		2
Plums, Dried / Prunes	567	0			0.005 ^		2
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.005 ^		2
Sweet Peas, Frozen	189	0			0.005 ^		2
TOTAL	4,262	0					
Fenbuconazole (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	3	0.8	0.001 ^	0.001 ^		0.5
Cranberries, Frozen	150	12	8	0.001 - 0.027	0.001 ^		0.5
Canned	566	0			0.001 ^		NT
Green Onions	707	3	0.4	0.010 - 0.012	0.005 ^	V-3	NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	2	0.3	0.002 - 0.004	0.001 - 0.005		1.0
Plums, Dried / Prunes	567	8	1.4	0.005 - 0.018	0.005 ^		1.0
Raisins	756	1	0.1	0.002 ^	0.001 - 0.003		1.0
Spinach, Frozen	188	0			0.001 ^		NT
Strawberries, Frozen	189	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
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	7,847	29					
Fenchlorphos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fenhexamid (fungicide)							
Asparagus	709	0			0.013 ^		0.02
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	48	9.1	0.015 - 1.5	0.015 ^		15.0
Mangoes	532	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	351	0			0.015 ^		10.0
Plums, Dried / Prunes	567	5	0.9	0.015 - 0.075	0.013 ^		2.5
Spinach, Frozen	188	0			0.010 ^		NT
Strawberries, Frozen	189	18	9.5	0.014 - 0.093	0.013 ^		3.0
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	5,944	71					
Fenitrothion (insecticide)							
Cilantro	177	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,845	0					
Fenobucarb - BPMC (insecticide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Fenoxaprop ethyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fenoxycarb (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fenpropathrin (insecticide)							
Asparagus	709	0			0.020 ^		NT
Cabbage	707	0			0.005 ^		3.0

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
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	0			0.005 ^		3.0
Cranberries, Frozen	150	0			0.005 ^		3.0
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	4	0.6	0.003 - 0.021	0.002 ^	V-4	NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	3	0.6	0.002 - 0.004	0.001 - 0.005		1.0
Olives, Canned	569	234	41.1	0.001 - 0.11	0.001 ^		5.0
Peaches, Canned	755	1	0.1	0.004 ^	0.002 - 0.020		1.4
Plums, Dried / Prunes	567	0			0.020 ^		1.4
Raisins	756	65	8.6	0.004 - 1.0	0.002 ^		10.0
Snap Peas	703	4	0.6	0.003 - 0.046	0.002 ^	X-1	0.02
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	28	14.8	0.020 - 0.28	0.020 ^		2.0
Sweet Peas, Frozen	189	0			0.005 ^		0.02
Sweet Potatoes	177	0			0.020 ^		NT
TOTAL	9,256	339					
Fenpropidin (fungicide)							
Mangoes	271	0			0.040 ^		NT
Olives, Canned	569	0			0.040 ^		NT
Spinach, Frozen	102	0			0.040 ^		NT
TOTAL	942	0					
Fenpropimorph (fungicide)							
Asparagus	709	0			0.001 ^		NT
Cabbage	668	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	535	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
TOTAL	3,750	0					
Fenpyrazamine (fungicide)							
Cranberries, Canned	379	0			0.001 ^		5
Cranberries, Frozen	150	0			0.001 ^		5
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	189	0			0.001 ^		NT
TOTAL	2,007	0					
Fenpyroximate (acaricide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.010		0.15
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.003 - 0.005		2.0
Plums, Dried / Prunes	567	2	0.4	0.008 - 0.014	0.005 ^		2.0
Raisins	756	278	36.8	0.003 - 0.52	0.003 ^		1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Snap Peas	703	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>22</u>	11.6	0.006 - 0.033	0.005 ^		1.0
TOTAL	7,569	302					
Fensulfothion (insecticide, fumigant)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fenthion (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	5,317	0					
Fenthion oxygen analog sulfone (metabolite of Fenthion)							
Kiwi Fruit	530	0			0.015 ^		NT
Peaches, Canned	351	0			0.015 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	1,058	0					
Fenthion oxygen analog sulfoxide (metabolite of Fenthion)							
Kiwi Fruit	530	0			0.015 ^		NT
Peaches, Canned	351	0			0.015 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	1,058	0					
Fenthion sulfone (metabolite of Fenthion)							
Kiwi Fruit	530	0			0.12 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.12 ^		NT
Spinach, Frozen	102	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.12 ^		NT
TOTAL	2,000	0					
Fenthion sulfoxide (metabolite of Fenthion)							
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Spinach, Frozen	102	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,000	0					
Fenuron (herbicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	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
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Fipronil (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 - 0.003		NT
Green Onions	707	1	0.1	0.015 ^	0.005 ^	V-1	NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.020		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	5,317	1					
Fipronil sulfone - MB46136 (metabolite of Fipronil)							
Asparagus	709	0			0.050 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.050 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.050 ^		NT
TOTAL	2,407	0					
Flazasulfuron (herbicide)							
Cranberries, Canned	348	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		0.01
Spinach, Frozen	188	0			0.005 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,976	0					
Flonicamid (insecticide)							
Asparagus	709	0			0.006 ^		NT
Cabbage	707	1	0.1	0.049 ^	0.010 ^		1.5
Cilantro	177	0			0.003 ^		4.0
Cranberries, Canned	379	0			0.050 ^		1.5
Cranberries, Frozen	150	0			0.050 ^		1.5
Canned	566	0			0.003 ^		3.0
Green Onions	707	0			0.010 ^		NT
Kale	707	55	7.8	0.083 - 2.0	0.050 ^		16
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.010 - 0.050		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		0.60
Plums, Dried / Prunes	567	0			0.006 ^		0.60
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	188	6	3.2	0.011 - 0.64	0.010 - 0.050		9.0
Strawberries, Frozen	189	74	39.2	0.007 - 0.11	0.006 ^		1.5
Sweet Peas, Frozen	189	0			0.050 ^		7.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.20
TOTAL	8,554	136					
Florpyrauxifen-Benzyl (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
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	102	0					
Fluazifop butyl (herbicide)							
Cilantro	177	0			0.001 - 0.003		NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		0.05
Raisins	756	0			0.001 ^		0.03
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,791	0					
Fluazinam (fungicide)							
Kale	707	0			0.010 ^		0.01
Kiwi Fruit	530	0			0.025 ^		NT
Peaches, Canned	351	0			0.025 ^		NT
Snap Peas	<u>703</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,291	0					
Flubendiamide (insecticide)							
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.020 ^		1.5
Cranberries, Frozen	150	0			0.020 ^		1.5
Canned	545	0			0.001 ^		0.60
Kale	707	25	3.5	0.005 - 1.1	0.003 ^		25
Mangoes	532	0			0.001 - 0.020		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		1.6
Plums, Dried / Prunes	567	1	0.2	0.008 ^	0.004 ^		1.6
Raisins	714	223	31.2	0.002 - 0.45	0.001 ^		1.4
Snap Peas	703	13	1.8	0.005 - 0.26	0.003 ^		0.50
Spinach, Frozen	188	18	9.6	0.001 - 1.5	0.001 - 0.020		11
Strawberries, Frozen	189	3	1.6	0.005 - 0.008	0.004 ^		1.5
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.020 ^		0.05
TOTAL	6,013	283					
Flucythrinate (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fludioxonil (fungicide)							
Asparagus	709	0			0.025 ^		NT
Cabbage	707	0			0.005 ^		2.0
Cilantro	177	2	1.1	0.010 ^	0.006 ^		10
Cranberries, Canned	378	0			0.005 ^		2.0
Cranberries, Frozen	150	0			0.005 ^		2.0
Canned	566	0			0.006 - 0.020		0.4
Green Onions	707	1	0.1	0.005 ^	0.005 ^		7.0
Kale	707	10	1.4	0.008 - 0.23	0.005 ^		10
Kiwi Fruit	530	65	12.3	0.067 - 6.1	0.065 ^		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
Mangoes	532	10	1.9	0.006 - 0.11	0.005 - 0.010		5.0
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	738	0			0.020 - 0.065		5.0
Plums, Dried / Prunes	567	0			0.025 ^		5.0
Raisins	756	54	7.1	0.010 - 0.080	0.006 ^		2.0
Snap Peas	703	2	0.3	0.023 - 0.034	0.005 ^	X-2	0.01
Spinach, Frozen	188	0			0.005 - 0.010		30
Strawberries, Frozen	189	8	4.2	0.030 - 0.065	0.025 ^		3.0
Sweet Peas, Frozen	189	0			0.005 ^		0.01
Sweet Potatoes	<u>177</u>	<u>45</u>	25.4	0.075 - 1.5	0.065 ^		6.0
TOTAL	9,239	197					
Fluensulfone (nematicide)							
Kale	<u>707</u>	<u>0</u>			0.040 ^		20
TOTAL	707	0					
Flufenacet (herbicide)							
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	538	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,270	0					
Flufenoxuron (insecticide)							
Asparagus	709	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,407	0					
Flufenpyr ethyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Flumetsulam (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Flumiclorac pentyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	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
Flumioxazin (herbicide)							
Asparagus	679	0			0.001 - 0.010		0.02
Cabbage	707	0			0.005 ^		0.02
Cilantro	177	0			0.002 - 0.005		NT
Canned	566	0			0.002 ^		0.07
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		0.02
Peaches, Canned	755	0			0.002 - 0.020		0.02
Plums, Dried / Prunes	567	0			0.001 - 0.010		0.02
Raisins	756	0			0.005 ^		0.02
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 - 0.010		0.07
Sweet Potatoes	<u>177</u>	<u>0</u>			0.050 ^		0.02
TOTAL	6,752	0					
Fluometuron (herbicide)							
Cranberries, Canned	379	0			0.004 ^		NT
Cranberries, Frozen	150	0			0.004 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.004		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.004		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.004 ^		NT
TOTAL	2,888	0					
Fluopicolide (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	11	1.6	0.010 - 0.11	0.010 ^		5.0
Cilantro	177	6	3.4	0.004 - 0.013	0.003 ^		25
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	1	0.1	0.027 ^	0.010 ^		7.0
Kale	707	264	37.3	0.003 - 4.4	0.002 ^		18
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.001 ^		6.0
Spinach, Frozen	188	37	19.7	0.001 - 0.053	0.001 - 0.002		25
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.09
TOTAL	8,554	319					
Fluopyram (fungicide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	1	0.1	0.10 ^	0.010 ^		4.0
Cilantro	177	19	10.7	0.002 - 0.69	0.001 ^		40
Cranberries, Canned	379	0			0.002 ^		7.0
Cranberries, Frozen	150	0			0.002 ^		7.0
Canned	566	0			0.001 ^		0.70

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Green Onions	707	0			0.010 ^		15
Kale	707	116	16.4	0.003 - 2.9	0.002 ^		50
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	1	0.1	0.007 ^	0.001 - 0.005		1.0
Plums, Dried / Prunes	567	18	3.2	0.005 - 0.038	0.005 ^		0.50
Raisins	756	380	50.3	0.002 - 0.30	0.001 ^		3.0
Snap Peas	703	4	0.6	0.003 - 0.080	0.002 ^		4.0
Spinach, Frozen	188	0			0.001 - 0.002		40
Strawberries, Frozen	189	23	12.2	0.006 - 0.14	0.005 ^		2.0
Sweet Peas, Frozen	189	0			0.002 ^		0.20
Sweet Potatoes	<u>177</u>	<u>2</u>	1.1	0.006 - 0.007	0.005 ^		0.10
TOTAL	9,257	564					
Fluorodifen (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 - 0.003		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Fluoxastrobin (fungicide)							
Cabbage	707	0			0.002 ^		NT
Cilantro	177	2	1.1	0.013 - 0.015	0.001 - 0.003	V-2	NT
Cranberries, Canned	379	0			0.001 ^		1.9
Cranberries, Frozen	150	0			0.001 ^		1.9
Canned	566	0			0.001 ^		0.20
Green Onions	707	0			0.002 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 ^		NT
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.010
TOTAL	6,382	2					
Flupyradifurone (insecticide)							
Cilantro	177	47	26.6	0.002 - 0.53	0.001 ^		30
Cranberries, Canned	379	0			0.005 ^		4.0
Cranberries, Frozen	150	0			0.005 ^		4.0
Canned	566	0			0.001 ^		3.0
Kale	707	63	8.9	0.050 - 3.6	0.030 ^		40
Kiwi Fruit	530	0			0.10 ^		NT
Mangoes	532	0			0.001 - 0.005		0.60
Olives, Canned	569	0			0.001 ^		0.60
Peaches, Canned	755	0			0.001 - 0.10		1.5
Raisins	756	144	19	0.003 - 0.35	0.003 ^		5.0
Snap Peas	703	2	0.3	0.050 ^	0.030 ^		3.0
Spinach, Frozen	188	38	20.2	0.002 - 1.9	0.001 - 0.005		30
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		2.0
TOTAL	6,201	294					
Fluquinconazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	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
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,821	0					
Fluridone (herbicide)							
Asparagus	709	0			0.001 ^		NT
Cabbage	707	0			0.010 ^		0.1
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.002 ^		0.1
Cranberries, Frozen	150	0			0.002 ^		0.1
Canned	566	0			0.001 ^		0.1
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.002 ^		0.1
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	3	0.5	0.001 ^	0.001 ^	V-3	NT
Peaches, Canned	755	0			0.001 - 0.005		0.1
Plums, Dried / Prunes	567	0			0.001 ^		0.1
Raisins	756	0			0.001 ^		0.1
Snap Peas	703	0			0.002 ^		0.1
Spinach, Frozen	188	0			0.001 - 0.002		0.1
Strawberries, Frozen	189	0			0.001 ^		0.1
Sweet Peas, Frozen	189	0			0.002 ^		0.1
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.1
TOTAL	9,257	3					
Flusilazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,879	0					
Fluthiacet methyl (herbicide)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,888	0					
Flutolanil (fungicide)							
Asparagus	709	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
Kale	707	0			0.004 ^		0.1
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.002 ^		NT
TOTAL	3,114	0					
Flutriafol (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cilantro	177	6	3.4	0.004 - 0.051	0.003 ^		10
Cranberries, Canned	379	2	0.5	0.003 - 0.026	0.002 ^	V-2	NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Kale	707	26	3.7	0.010 - 1.7	0.006 ^		7.0
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.025		1.5
Plums, Dried / Prunes	567	0			0.010 ^		1.5
Raisins	756	375	49.6	0.002 - 0.57	0.001 ^		2.4
Spinach, Frozen	188	20	10.6	0.002 - 1.5	0.001 - 0.002		10
Strawberries, Frozen	189	4	2.1	0.011 - 0.026	0.010 ^		1.5
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.002 ^		NT
TOTAL	6,963	433					
Fluvalinate (insecticide)							
Asparagus	709	0			0.050 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	378	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.002 ^		NT
Kiwi Fruit	530	0			0.035 ^		NT
Mangoes	532	0			0.001 - 0.050		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.035 ^		NT
Plums, Dried / Prunes	567	0			0.050 ^		NT
Snap Peas	703	0			0.002 ^		NT
Spinach, Frozen	188	0			0.001 - 0.050		NT
Strawberries, Frozen	189	0			0.050 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		NT
TOTAL	7,353	0					
Fluxapyroxad (fungicide)							
Cilantro	177	8	4.5	0.003 - 0.083	0.003 ^		30
Cranberries, Canned	379	0			0.005 ^		7.0
Cranberries, Frozen	150	0			0.005 ^		7.0
Canned	566	2	0.4	0.002 ^	0.001 ^		0.4
Kale	707	91	12.9	0.005 - 1.5	0.003 ^		4.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.005		0.7
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		3.0
Raisins	756	69	9.1	0.002 - 0.21	0.001 ^		5.7
Snap Peas	703	0			0.003 ^		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
Spinach, Frozen	188	24	12.8	0.013 - 1.6	0.001 - 0.005		30
Sweet Peas, Frozen	189	7	3.7	0.005 - 0.027	0.005 ^		0.5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.02
TOTAL	6,378	201					
Folpet (fungicide)							
Asparagus	322	0			0.030 ^		NT
Cranberries, Canned	347	0			0.005 ^		15.0
Cranberries, Frozen	150	0			0.005 ^		15.0
Mangoes	231	0			0.005 ^		NT
Strawberries, Frozen	<u>157</u>	<u>0</u>			0.030 ^		5.0
TOTAL	1,207	0					
Fomesafen (herbicide)							
Snap Peas	703	0			0.030 ^		0.05
Spinach, Frozen	86	0			0.005 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		0.05
TOTAL	978	0					
Fonofos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.030		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		NT
TOTAL	5,317	0					
Forchlorfenuron (plant growth regulator)							
Cabbage	707	0			0.002 ^		NT
Cranberries, Canned	379	0			0.001 ^		0.01
Cranberries, Frozen	150	0			0.001 ^		0.01
Green Onions	707	0			0.002 ^		NT
Kiwi Fruit	530	1	0.2	0.006 ^	0.005 ^		0.04
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.001 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	4,302	1					
Formetanate hydrochloride (insecticide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		0.40
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,414	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
Fosthiazate (nematicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Furalaxyl (fungicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Furathiocarb (insecticide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,414	0					
Halosulfuron (herbicide)							
Cranberries, Canned	379	0			0.010 ^		0.05
Cranberries, Frozen	150	0			0.010 ^		0.05
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	261	0			0.010 ^		NT
Peaches, Canned	351	0			0.050 ^		NT
Spinach, Frozen	86	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		0.05
Sweet Potatoes	<u>177</u>	<u>0</u>			0.055 ^		0.05
TOTAL	2,123	0					
Halosulfuron methyl ² (herbicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,356	0					
Heptenophos (insecticide, acaricide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Hexaconazole (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,356	0					
Hexazinone (herbicide)							
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 - 0.003		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			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
TOTAL	2,000	0					
Hexythiazox (insecticide, acaricide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	158	0			0.006 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.015		1.0
Plums, Dried / Prunes	567	49	8.6	0.002 - 0.026	0.002 ^		1.3
Raisins	756	35	4.6	0.003 - 0.063	0.002 ^		1
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	23	12.2	0.002 - 0.038	0.002 ^		6
Sweet Peas, Frozen	189	0			0.005 ^		0.3
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	7,038	107					
Hydroprene (insect growth regulator)							
Cilantro	177	0			0.002 ^		0.2
Cranberries, Canned	378	0			0.005 ^		0.2
Cranberries, Frozen	150	0			0.005 ^		0.2
Canned	566	0			0.002 ^		0.2
Kale	707	0			0.015 ^		0.2
Kiwi Fruit	530	0			0.015 ^		0.2
Mangoes	532	0			0.003 - 0.005		0.2
Olives, Canned	569	0			0.003 ^		0.2
Peaches, Canned	755	0			0.002 - 0.015		0.2
Raisins	756	0			0.002 ^		0.2
Snap Peas	703	0			0.015 ^		0.2
Spinach, Frozen	188	0			0.003 - 0.005		0.2
Sweet Peas, Frozen	189	0			0.005 ^		0.2
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.2
TOTAL	6,377	0					
3-Hydroxycarbofuran (metabolite of Carbofuran)							
Asparagus	709	2	0.3	0.005 - 0.006	0.003 ^	V-2	NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.004 ^		NT
Cranberries, Canned	379	0			0.004 ^		NT
Cranberries, Frozen	150	0			0.004 ^		NT
Canned	566	0			0.001 - 0.004		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.050 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.004		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.004 - 0.005		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Raisins	630	0			0.004 - 0.008		NT
Snap Peas	703	0			0.050 ^		NT
Spinach, Frozen	188	0			0.001 - 0.004		NT
Strawberries, Frozen	189	0			0.003 ^		NT
Sweet Peas, Frozen	189	0			0.004 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			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
TOTAL	9,131	2					
5-Hydroxythiabendazole (metabolite of Thiabendazole)							
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	19	7	0.001 - 0.004	0.001 ^		10.0
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		0.02
TOTAL	1,823	19					
Imazalil (fungicide)							
Asparagus	679	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	7,816	0					
Imazethapyr (herbicide)							
Asparagus	709	0			0.020 ^		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Snap Peas	703	0			0.050 ^		0.1
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,168	0					
Imazosulfuron (herbicide)							
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.025 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		0.02
TOTAL	2,000	0					
Imidacloprid (insecticide)							
Asparagus	709	7	1	0.004 - 0.39	0.003 ^	V-7	NT
Cabbage	707	54	7.6	0.010 - 0.093	0.010 ^		3.5
Cilantro	177	61	34.5	0.002 - 0.57	0.001 ^		8.0
Cranberries, Canned	379	0			0.005 ^		0.05
Cranberries, Frozen	150	0			0.005 ^		0.05
Canned	566	2	0.4	0.002 ^	0.001 ^		4.0
Green Onions	707	1	0.1	0.055 ^	0.010 ^		2.5
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	9	1.7	0.003 - 0.018	0.003 - 0.005		1.0
Olives, Canned	569	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
Peaches, Canned	755	2	0.3	0.002 ^	0.001 - 0.020		3.0
Plums, Dried / Prunes	567	18	3.2	0.003 - 0.022	0.003 ^		3.0
Raisins	756	634	83.9	0.002 - 0.23	0.001 ^		1.5
Snap Peas	703	6	0.9	0.067 - 0.65	0.040 ^		4.0
Spinach, Frozen	188	30	16	0.003 - 0.084	0.003 - 0.005		3.5
Strawberries, Frozen	189	6	3.2	0.003 - 0.055	0.003 ^		0.50
Sweet Peas, Frozen	189	0			0.005 ^		4.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		0.40
TOTAL	8,550	830					
Imidacloprid urea (metabolite of Imidacloprid)							
Kiwi Fruit	530	0			0.015 ^		NT
Peaches, Canned	351	0			0.015 ^		3.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.40
TOTAL	1,058	0					
Imiprothrin (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	1	0.3	0.083 ^	0.050 ^	V-1	NT
Cranberries, Frozen	150	0			0.050 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.007 ^		NT
Kiwi Fruit	530	0			0.095 ^		NT
Mangoes	532	0			0.010 - 0.050		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	351	0			0.095 ^		NT
Plums, Dried / Prunes	536	0			0.010 ^		NT
Snap Peas	703	0			0.007 ^		NT
Spinach, Frozen	188	0			0.010 - 0.10		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.10 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.095 ^		NT
TOTAL	7,323	1					
Indaziflam (herbicide)							
Asparagus	709	0			0.001 ^		NT
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		0.01
Plums, Dried / Prunes	567	0			0.001 ^		0.01
Spinach, Frozen	188	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	3,472	0					
Indoxacarb (insecticide)							
Asparagus	709	0			0.020 ^		NT
Cabbage	707	12	1.7	0.010 - 0.049	0.010 ^		12
Cranberries, Canned	347	0			0.050 ^		1.5
Cranberries, Frozen	150	0			0.050 ^		1.5
Green Onions	707	0			0.010 ^		NT
Kale	707	60	8.5	0.005 - 3.5	0.003 ^		12
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	532	0			0.005 - 0.050		NT
Olives, Canned	569	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
Peaches, Canned	351	0			0.025 ^		0.90
Plums, Dried / Prunes	567	0			0.020 ^		0.90
Spinach, Frozen	188	2	1.1	0.65 - 1.7	0.005 - 0.050		14
Strawberries, Frozen	189	0			0.020 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		0.01
TOTAL	6,619	74					
Ipconazole (fungicide)							
Cranberries, Canned	379	1	0.3	0.055 ^	0.010 ^	V-1	NT
Cranberries, Frozen	150	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Snap Peas	703	0			0.005 ^		0.01
Spinach, Frozen	188	0			0.003 - 0.010		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		0.01
TOTAL	3,591	1					
Iprobenfos - IBP (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Iprodione (fungicide)							
Asparagus	709	0			0.040 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	1	0.6	0.41 ^	0.009 ^	V-1	NT
Cranberries, Canned	378	0			0.075 ^		NT
Cranberries, Frozen	150	0			0.075 ^		NT
Canned	524	0			0.009 ^		2.0
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	119	22.5	0.025 - 2.8	0.025 ^		10.0
Mangoes	532	0			0.005 - 0.075		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	738	0			0.009 - 0.030		20.0
Plums, Dried / Prunes	567	0			0.040 ^		20.0
Raisins	714	11	1.5	0.015 - 0.27	0.009 ^		300
Spinach, Frozen	188	1	0.5	0.008 ^	0.005 - 0.075	V-1	NT
Strawberries, Frozen	189	5	2.6	0.059 - 0.11	0.040 ^		15.0
Sweet Peas, Frozen	189	0			0.075 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		NT
TOTAL	7,745	137					
Iprovalicarb (fungicide)							
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,000	0					
Isocarbophos (insecticide)							
Mangoes	271	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
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Isofenphos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	2,356	0					
Isofenphos methyl (metabolite if Isofenphos)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Isofetamid (fungicide)							
Cranberries, Canned	379	0			0.001 ^		4.0
Cranberries, Frozen	150	0			0.001 ^		4.0
Mangoes	261	0			0.001 ^		NT
Spinach, Frozen	86	0			0.001 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		0.030
TOTAL	1,065	0					
Isoprocarb (insecticide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Isoprothiolane (fungicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,356	0					
Isoproturon (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Isopyrazam (fungicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Isxadifen ethyl (herbicide safener)							
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	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
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,887	0					
Kinoprene (insecticide)							
Kiwi Fruit	530	0			0.10 ^		NT
Peaches, Canned	<u>351</u>	<u>0</u>			0.050 ^		NT
TOTAL	881	0					
Kresoxim-methyl (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.002 - 0.015		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	179	23.7	0.003 - 0.087	0.002 ^		1.5
Spinach, Frozen	188	0			0.005 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	6,432	179					
Lactofen (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Snap Peas	703	0			0.004 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	1,645	0					
Lenacil (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,414	0					
Leptophos oxygen analog (insecticide metabolite)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Linuron (herbicide)							
Asparagus	709	4	0.6	0.009 - 0.041	0.008 ^		7.0
Cabbage	707	0			0.019 ^		NT
Cilantro	177	79	44.6	0.005 - 0.66	0.005 ^		3.0
Cranberries, Canned	379	1	0.3	0.018 ^	0.010 ^	V-1	NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.019 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	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
Plums, Dried / Prunes	567	0			0.008 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	10	5.3	0.003 - 0.13	0.003 - 0.010	V-10	NT
Strawberries, Frozen	189	0			0.008 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,847	94					
Lufenuron (insecticide)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,058	0					
Malathion (insecticide)							
Asparagus	709	0			0.002 ^		8
Cabbage	707	0			0.010 ^		8
Cilantro	138	4	2.9	0.002 - 0.016	0.001 - 0.006		8
Cranberries, Canned	379	0			0.010 ^		8
Cranberries, Frozen	150	0			0.010 ^		8
Canned	566	0			0.001 - 0.003		NT
Green Onions	707	5	0.7	0.011 - 0.032	0.010 ^		8
Kale	707	10	1.4	0.008 - 0.046	0.005 ^		8
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	8	1.5	0.003 - 0.008	0.003 - 0.010		8
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		8
Plums, Dried / Prunes	535	0			0.002 ^		8
Raisins	756	0			0.001 - 0.003		12
Spinach, Frozen	188	0			0.003 - 0.010		8
Strawberries, Frozen	189	65	34.4	0.002 - 0.042	0.002 ^		8
Sweet Peas, Frozen	189	0			0.010 ^		8
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		1
TOTAL	8,483	92					
Malathion oxygen analog (metabolite of Malathion)							
Asparagus	678	0			0.002 ^		8
Cabbage	707	0			0.010 ^		8
Cranberries, Canned	379	0			0.002 ^		8
Cranberries, Frozen	150	0			0.002 ^		8
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		8
Kale	707	0			0.015 ^		8
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		8
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.005		8
Plums, Dried / Prunes	567	0			0.002 ^		8
Raisins	756	0			0.002 ^		12
Spinach, Frozen	188	0			0.001 - 0.002		8
Strawberries, Frozen	189	7	3.7	0.002 - 0.005	0.002 ^		8
Sweet Peas, Frozen	189	0			0.002 ^		8
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		1
TOTAL	8,346	7					
Mandipropamid (fungicide)							
Asparagus	709	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
Cabbage	707	5	0.7	0.006 - 0.16	0.005 ^		3
Cilantro	177	5	2.8	0.005 - 0.020	0.003 ^		25
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.003 ^		NT
Green Onions	707	16	2.3	0.006 - 0.051	0.005 ^		4.0
Kale	707	91	12.9	0.008 - 6.6	0.005 ^		25
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.003 - 0.020		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.010 ^		3.0
Spinach, Frozen	188	64	34	0.003 - 2.7	0.003 - 0.005		25
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.020 ^		0.09
TOTAL	8,554	181					
Mecarbam (insecticide, acaricide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	102	0			0.005 ^		NT
TOTAL	942	0					
Mefenacet (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
TOTAL	1,414	0					
Mefenpyr diethyl (herbicide safener)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
TOTAL	942	0					
Mepanipyrim (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	538	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	911	0					
Mephosfolan (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
TOTAL	942	0					
Mesotrione (herbicide)							
Cranberries, Canned	379	0			0.050 ^		0.02
Cranberries, Frozen	150	0			0.050 ^		0.02
Kiwi Fruit	530	0			0.020 - 0.040		NT
Mangoes	58	0			0.050 ^		NT
Spinach, Frozen	86	0			0.050 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
TOTAL	1,392	0					
Metaflumizone (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
Cranberries, Canned	189	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	445	0			0.002 - 0.010		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		0.04
Spinach, Frozen	102	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,513	0					
Metalaxyl/Mefenoxam ³ (fungicide)							
Asparagus	709	0			0.001 ^		7.0
Cabbage	707	12	1.7	0.006 - 0.021	0.005 ^		1.0
Cilantro	177	8	4.5	0.002 - 0.036	0.001 ^		5.0
Cranberries, Canned	378	0			0.010 ^		4.0
Cranberries, Frozen	150	0			0.010 ^		4.0
Canned	566	0			0.001 ^		0.2
Green Onions	707	16	2.3	0.006 - 0.070	0.005 ^		10.0
Kale	707	32	4.5	0.007 - 0.13	0.004 ^		0.1
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	532	0			0.001 - 0.010		0.40
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.030		1.0
Plums, Dried / Prunes	536	0			0.001 ^		4.0
Raisins	756	7	0.9	0.002 - 0.016	0.001 ^		6.0
Snap Peas	703	3	0.4	0.007 ^	0.004 ^		0.2
Spinach, Frozen	188	0			0.001 - 0.010		10.0
Strawberries, Frozen	189	39	20.6	0.001 - 0.056	0.001 ^		10.0
Sweet Peas, Frozen	189	0			0.010 ^		0.2
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		0.5
TOTAL	9,225	117					
Metalddehyde (molluscicide)							
Kale	707	0			0.040 ^		2.5
Kiwi Fruit	530	0			0.11 ^		NT
Peaches, Canned	351	0			0.11 ^		NT
Snap Peas	703	0			0.040 ^		0.80
Sweet Potatoes	<u>177</u>	<u>0</u>			0.11 ^		NT
TOTAL	2,468	0					
Metconazole (fungicide)							
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		0.2
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.04
TOTAL	2,000	0					
Methacrifos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Methamidophos (insecticide) (also a metabolite of Acephate)							

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	709	4	0.6	0.005 - 0.13	0.005 ^	X-2	0.02
Cabbage	707	4	0.6	0.010 - 0.099	0.010 ^	X-1	0.02
Cilantro	177	1	0.6	0.004 ^	0.001 ^		0.02
Cranberries, Canned	379	0			0.020 ^		0.1
Cranberries, Frozen	150	0			0.020 ^		0.1
Canned	566	0			0.004 ^		0.02
Green Onions	707	0			0.010 ^		0.02
Kale	707	0			0.050 ^		0.02
Kiwi Fruit	530	0			0.035 ^		0.02
Mangoes	532	1	0.2	0.001 ^	0.001 - 0.020		0.02
Olives, Canned	569	0			0.001 ^		0.02
Peaches, Canned	755	0			0.004 - 0.035		0.02
Plums, Dried / Prunes	567	0			0.005 ^		0.02
Snap Peas	703	0			0.050 ^		0.02
Spinach, Frozen	188	0			0.001 - 0.020		0.02
Strawberries, Frozen	189	1	0.5	0.007 ^	0.005 ^		0.02
Sweet Peas, Frozen	189	0			0.020 ^		0.02
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		0.02
TOTAL	8,501	11					
Methidathion (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	378	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.015 ^		0.1
Mangoes	532	0			0.002 - 0.003		0.05
Olives, Canned	569	0			0.003 ^		0.05
Peaches, Canned	755	0			0.001 - 0.015		0.05
Plums, Dried / Prunes	535	0			0.010 ^		0.05
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.002 - 0.003		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	7,814	0					
Methiocarb (insecticide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	158	0			0.003 ^		NT
Canned	524	0			0.003 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	3,919	0					
Methiocarb sulfone (metabolite of Methiocarb)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			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	942	0					
Methiocarb sulfoxide (metabolite of Methiocarb)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Methomyl (insecticide)							
Asparagus	709	2	0.3	0.067 - 0.21	0.030 ^		2
Cabbage	707	11	1.6	0.010 - 0.18	0.010 ^		7.0
Cilantro	177	1	0.6	0.004 ^	0.002 ^	V-1	NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 - 0.008		NT
Green Onions	707	6	0.8	0.010 - 0.034	0.010 ^		3
Kale	707	2	0.3	0.042 - 0.15	0.025 ^		6
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.005 - 0.010		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.002 - 0.015		5
Plums, Dried / Prunes	567	0			0.030 ^		NT
Raisins	756	0			0.002 - 0.016		5
Spinach, Frozen	188	2	1.1	0.038 - 0.061	0.005 - 0.010		35
Strawberries, Frozen	189	0			0.030 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		0.2
TOTAL	8,554	24					
Methoprene (insect growth regulator)							
Canned	566	33	5.8	0.025 - 0.068	0.015 ^		EX
Kiwi Fruit	530	0			0.060 ^		EX
Peaches, Canned	755	0			0.015 - 0.060		EX
Raisins	756	0			0.015 ^		EX
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		EX
TOTAL	2,784	33					
Methoxychlor Total (insecticide)							
Cilantro	177	0			0.001 - 0.006		NT
Kiwi Fruit	530	0			0.040 ^		NT
Peaches, Canned	738	0			0.003 - 0.040		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		NT
TOTAL	1,622	0					
Methoxychlor olefin (metabolite of Methoxychlor)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	<u>756</u>	<u>0</u>			0.001 ^		NT
TOTAL	1,903	0					
Methoxychlor p,p' (isomer of Methoxychlor)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 - 0.005		NT
TOTAL	2,356	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
Methoxyfenozide (insecticide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	11	1.6	0.010 - 1.3	0.010 ^		7.0
Cilantro	157	6	3.8	0.003 - 0.28	0.003 ^		400
Cranberries, Canned	379	0			0.002 ^		3
Cranberries, Frozen	150	30	20	0.002 - 0.007	0.002 ^		3
Canned	545	0			0.001 - 0.003		0.50
Green Onions	707	30	4.2	0.011 - 0.37	0.010 ^		5.0
Kale	707	72	10.2	0.017 - 5.2	0.010 ^		30
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.002 - 0.003		0.6
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	1	0.1	0.002 ^	0.001 - 0.010		3.0
Plums, Dried / Prunes	536	57	10.6	0.004 - 0.086	0.003 ^		0.30
Raisins	756	659	87.2	0.002 - 0.62	0.001 - 0.003		1.5
Snap Peas	703	2	0.3	0.017 - 0.11	0.010 ^		1.5
Spinach, Frozen	188	58	30.9	0.003 - 3.5	0.002 - 0.003		30
Strawberries, Frozen	189	17	9	0.005 - 0.066	0.003 ^		2.0
Sweet Peas, Frozen	189	0			0.002 ^		0.2
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.02
TOTAL	9,185	943					
Metolachlor (herbicide)							
Asparagus	709	0			0.001 ^		0.10
Cabbage	707	0			0.005 ^		0.60
Cilantro	177	12	6.8	0.002 - 0.013	0.001 ^		8.0
Cranberries, Canned	378	0			0.005 ^		0.15
Cranberries, Frozen	150	0			0.005 ^		0.15
Canned	566	4	0.7	0.002 - 0.004	0.001 ^		0.30
Green Onions	707	0			0.005 ^		2.0
Kale	707	0			0.002 ^		1.8
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.002 ^		0.30
Spinach, Frozen	188	5	2.7	0.005 - 0.008	0.001 - 0.005		0.50
Strawberries, Frozen	189	0			0.001 ^		0.40
Sweet Peas, Frozen	189	0			0.005 ^		0.30
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.20
TOTAL	9,256	21					
Metolcarb (insecticide, acaricide)							
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	942	0					
Metrafenone (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			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	2,356	0					
Metribuzin (herbicide)							
Asparagus	709	8	1.1	0.009 - 0.058	0.005 ^		0.1
Cilantro	177	2	1.1	0.003 ^	0.002 ^	V-2	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.002 - 0.020		NT
Plums, Dried / Prunes	536	0			0.005 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.005 ^		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		0.1
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	6,401	10					
Metsulfuron methyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Mevinphos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.005 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Raisins	756	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	6,382	0					
MGK-264 (insecticide)							
Asparagus	709	0			0.10 ^		5
Cilantro	177	0			0.002 ^		5
Cranberries, Canned	378	0			0.025 ^		5
Cranberries, Frozen	150	0			0.025 ^		5
Canned	566	2	0.4	0.003 ^	0.002 ^		5
Kale	707	0			0.001 ^		5
Kiwi Fruit	530	0			0.030 ^		5
Mangoes	532	0			0.001 - 0.025		5
Olives, Canned	569	0			0.001 ^		5
Peaches, Canned	755	0			0.002 - 0.030		5
Plums, Dried / Prunes	567	0			0.10 ^		5
Raisins	756	115	15.2	0.003 - 0.22	0.002 ^		5
Snap Peas	703	0			0.001 ^		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
Spinach, Frozen	188	0			0.001 - 0.025		5
Strawberries, Frozen	189	0			0.10 ^		5
Sweet Peas, Frozen	189	0			0.025 ^		5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		5
TOTAL	7,842	117					
Molinate (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Monocrotophos (insecticide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	3,414	0					
Monolinuron (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Monuron (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Myclobutanil (fungicide)							
Asparagus	709	0			0.003 ^		0.02
Cabbage	707	0			0.005 ^		0.03
Cilantro	177	8	4.5	0.003 - 0.026	0.002 ^		9.0
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.001 ^		0.03
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	3	0.6	0.021 - 0.043	0.001 ^	V-3	NT
Mangoes	532	0			0.003 - 0.010		3.0
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	5	0.7	0.002 ^	0.001 ^		2.0
Plums, Dried / Prunes	567	0			0.003 ^		8.0
Raisins	756	484	64	0.002 - 0.091	0.001 ^		10.0
Snap Peas	703	0			0.005 ^		0.03
Spinach, Frozen	188	0			0.003 - 0.010		0.03
Strawberries, Frozen	189	37	19.6	0.004 - 0.14	0.003 ^		0.50
Sweet Peas, Frozen	189	0			0.010 ^		0.03
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		0.03
TOTAL	8,549	537					
Naled (insecticide)							
Kale	707	0			0.025 ^		3
Plums, Dried / Prunes	567	0			0.020 ^		0.5

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	703	0			0.025 ^		0.5
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		1
TOTAL	2,166	0					
1-Naphthol (metabolite of Carbaryl)							
Asparagus	651	2	0.3	0.16 - 0.70	0.015 ^		15
Cranberries, Canned	345	9	2.6	0.010 - 0.016	0.010 ^		3.0
Cranberries, Frozen	150	6	4	0.022 - 0.40	0.010 ^		3.0
Kale	707	0			0.10 ^		10
Mangoes	232	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.015 ^		10
Snap Peas	703	0			0.10 ^		10
Spinach, Frozen	86	0			0.010 ^		22
Strawberries, Frozen	189	0			0.015 ^		4.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,819	17					
Napropamide (herbicide)							
Cabbage	707	0			0.010 ^		0.1
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	379	0			0.001 ^		0.1
Cranberries, Frozen	150	0			0.001 ^		0.1
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.003 ^		0.1
Kiwi Fruit	530	0			0.020 ^		0.1
Mangoes	532	0			0.001 - 0.003		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.020		NT
Raisins	756	0			0.002 ^		0.1
Spinach, Frozen	188	0			0.001 - 0.003		NT
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		0.1
TOTAL	7,089	0					
Neburon (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Nicosulfuron (herbicide)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	503	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,978	0					
Nitrapyrin (nitrification inhibitor)							
Cranberries, Canned	314	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>125</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,878	0					
Nitrofen (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	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Norflurazon (herbicide)							
Asparagus	709	0			0.002 ^		0.05
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	345	0			0.010 ^		0.1
Cranberries, Frozen	122	0			0.010 ^		0.1
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	416	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		0.1
Plums, Dried / Prunes	536	0			0.002 ^		0.1
Raisins	756	0			0.001 ^		0.1
Spinach, Frozen	188	0			0.003 - 0.010		NT
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	187	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	7,636	0					
Norflurazon desmethyl (metabolite of Norflurazon)							
Asparagus	709	0			0.005 ^		0.05
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	378	0			0.005 ^		0.1
Cranberries, Frozen	150	2	1.3	0.007 - 0.012	0.005 ^		0.1
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	1	0.1	0.002 ^	0.001 - 0.010		0.1
Plums, Dried / Prunes	567	0			0.005 ^		0.1
Raisins	756	2	0.3	0.002 ^	0.001 ^		0.1
Spinach, Frozen	188	0			0.003 - 0.005		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,846	5					
Novaluron (insecticide)							
Asparagus	709	0			0.009 ^		0.01
Cabbage	707	1	0.1	0.018 ^	0.010 ^		0.50
Cilantro	177	2	1.1	0.002 ^	0.001 ^		0.01
Cranberries, Canned	379	1	0.3	0.064 ^	0.005 ^		7.0
Cranberries, Frozen	150	0			0.005 ^		7.0
Canned	566	0			0.001 - 0.003		0.01
Green Onions	707	0			0.010 ^		0.01
Kale	707	5	0.7	0.24 - 1.7	0.010 ^		25
Kiwi Fruit	530	0			0.010 ^		0.01
Mangoes	532	0			0.003 - 0.005		0.01
Olives, Canned	569	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
Peaches, Canned	755	0			0.003 - 0.010		1.9
Plums, Dried / Prunes	567	0			0.009 ^		3.0
Raisins	756	0			0.003 ^		0.01
Snap Peas	703	1	0.1	0.070 ^	0.010 ^	X-1	0.01
Spinach, Frozen	188	0			0.001 - 0.005		0.01
Strawberries, Frozen	189	49	25.9	0.010 - 0.12	0.009 ^		0.45
Sweet Peas, Frozen	189	0			0.005 ^		0.01
Sweet Potatoes	177	0			0.010 ^		0.05
TOTAL	9,257	59					
Omethoate (insecticide) (also a metabolite of Dimethoate)							
Asparagus	709	0			0.020 ^		0.15
Cabbage	707	1	0.1	0.010 ^	0.010 ^	V-1	NT
Cilantro	177	1	0.6	0.004 ^	0.002 ^	V-1	NT
Cranberries, Canned	379	0			0.015 ^		NT
Cranberries, Frozen	150	0			0.015 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	3	0.4	0.083 - 0.65	0.050 ^		2.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	5	0.9	0.002 - 0.036	0.001 - 0.015	V-5	NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.010		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Raisins	756	0			0.002 ^		NT
Snap Peas	703	22	3.1	0.083 - 0.36	0.050 ^		2.0
Spinach, Frozen	188	1	0.5	0.004 ^	0.001 - 0.015	V-1	NT
Strawberries, Frozen	189	0			0.020 ^		NT
Sweet Peas, Frozen	189	0			0.015 ^		2.0
Sweet Potatoes	177	0			0.010 ^		NT
TOTAL	9,257	33					
Orthosulfamuron (herbicide)							
Spinach, Frozen	102	0			0.010 ^		NT
TOTAL	102	0					
Oryzalin (herbicide)							
Asparagus	679	0			0.020 ^		NT
Cabbage	707	0			0.020 ^		NT
Cranberries, Canned	379	0			0.20 ^		0.05
Cranberries, Frozen	150	0			0.20 ^		0.05
Green Onions	707	0			0.020 - 0.050		NT
Kiwi Fruit	530	0			0.10 ^		0.05
Mangoes	261	0			0.20 ^		NT
Peaches, Canned	351	0			0.10 ^		0.05
Plums, Dried / Prunes	536	0			0.020 ^		0.05
Spinach, Frozen	86	0			0.20 ^		NT
Strawberries, Frozen	189	0			0.020 ^		0.05
Sweet Peas, Frozen	189	0			0.20 ^		NT
Sweet Potatoes	177	0			0.10 ^		NT
TOTAL	4,941	0					
Oxadiazon (herbicide)							
Asparagus	680	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	536	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
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,347	0					
Oxadixyl (fungicide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	404	0			0.003 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	4,259	0					
Oxamyl (insecticide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	1	0.1	0.060 ^	0.010 ^	V-1	NT
Cilantro	177	0			0.002 ^		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.006 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.002 - 0.005		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.005 - 0.006		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Raisins	756	0			0.006 ^		NT
Spinach, Frozen	188	0			0.002 - 0.005		NT
Strawberries, Frozen	189	0			0.003 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.1
TOTAL	7,847	1					
Oxamyl oxime (metabolite of Oxamyl)							
Asparagus	679	0			0.006 ^		NT
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	0			0.050 ^		NT
Cranberries, Frozen	150	0			0.050 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	532	0			0.005 - 0.050		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.040 ^		NT
Plums, Dried / Prunes	567	0			0.006 - 0.007		NT
Spinach, Frozen	188	0			0.005 - 0.050		NT
Strawberries, Frozen	189	0			0.006 ^		NT
Sweet Peas, Frozen	189	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		0.1
TOTAL	5,914	0					
Oxathiapiprolin (fungicide)							
Spinach, Frozen	<u>102</u>	<u>5</u>	4.9	0.002 - 0.14	0.001 ^		15
TOTAL	102	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
Oxydemeton methyl (insecticide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	1	0.1	0.022 ^	0.010 ^		2.0
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	25	13.2	0.002 - 0.12	0.002 ^		2.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,879	26					
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	1	0.1	0.019 ^	0.010 ^		2.0
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Strawberries, Frozen	189	7	3.7	0.003 - 0.020	0.002 ^		2.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	5,767	8					
Oxyfluorfen (herbicide)							
Asparagus	709	0			0.050 ^		NT
Cabbage	707	0			0.005 ^		0.05
Cilantro	177	11	6.2	0.002 - 0.005	0.001 ^	V-11	NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		0.05
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	1	0.2	0.003 ^	0.001 ^		0.05
Peaches, Canned	755	0			0.001 - 0.040		0.05
Plums, Dried / Prunes	567	0			0.050 ^		0.05
Raisins	756	33	4.4	0.002 - 0.006	0.001 ^		0.05
Spinach, Frozen	102	1	1	0.001 ^	0.001 ^	V-1	NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.050 ^		NT
TOTAL	6,605	46					
Paclobutrazol (plant growth regulator)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,414	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
Parathion (insecticide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.060 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.003 - 0.060		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.060 ^		NT
TOTAL	6,782	0					
Parathion oxygen analog (metabolite of Parathion)							
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	3,726	0					
Parathion methyl (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	59	0			0.002 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.020		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	7,728	0					
Parathion methyl oxygen analog (metabolite of Parathion methyl)							
Asparagus	709	0			0.020 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	755	0			0.001 - 0.025		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Raisins	756	0			0.001 - 0.003		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Spinach, Frozen	102	0			0.010 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	5,014	0					
Pebulate (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,414	0					
Penconazole (fungicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,414	0					
Pencycuron (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,414	0					
Pendimethalin (herbicide)							
Asparagus	709	0			0.050 ^		0.15
Cabbage	651	0			0.005 ^		0.1
Cilantro	177	32	18.1	0.002 - 0.010	0.001 ^	V-32	NT
Cranberries, Canned	378	0			0.005 ^		0.1
Cranberries, Frozen	150	0			0.005 ^		0.1
Canned	566	0			0.001 ^		0.10
Green Onions	707	1	0.1	0.009 ^	0.005 ^		0.2
Kale	707	74	10.5	0.005 - 0.053	0.003 ^		0.20
Kiwi Fruit	530	0			0.035 ^		0.10
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		0.1
Peaches, Canned	755	0			0.001 - 0.035		0.1
Plums, Dried / Prunes	567	0			0.050 ^		0.10
Raisins	756	10	1.3	0.002 ^	0.001 ^		0.1
Spinach, Frozen	188	19	10.1	0.003 - 0.011	0.003 - 0.005	V-19	NT
Strawberries, Frozen	189	0			0.050 ^		0.1
Sweet Peas, Frozen	189	0			0.005 ^		0.10
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		NT
TOTAL	8,497	136					
Penflufen (fungicide)							
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	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
Snap Peas	703	0			0.002 ^		0.01
Spinach, Frozen	188	0			0.001 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		0.01
TOTAL	2,710	0					
Penoxsulam (herbicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		0.01
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,356	0					
Pentachloroaniline - PCA (metabolite of Quintozene)							
Asparagus	709	0			0.004 ^		NT
Cabbage	707	0			0.005 ^		0.1
Cilantro	177	17	9.6	0.002 - 0.003	0.001 ^	V-17	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		0.1
Green Onions	707	0			0.005 ^		NT
Kale	707	3	0.4	0.003 - 0.011	0.002 ^		0.2
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Plums, Dried / Prunes	567	0			0.004 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	1	0.5	0.001 ^	0.001 - 0.005	V-1	NT
Strawberries, Frozen	189	0			0.004 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	8,553	21					
Pentachlorobenzene - PCB (metabolite of Quintozene)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		0.1
Cilantro	177	0			0.003 - 0.010		NT
Cranberries, Canned	346	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.010 - 0.020		0.1
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.001 ^		0.2
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.020		NT
Plums, Dried / Prunes	534	0			0.005 ^		NT
Raisins	756	0			0.003 - 0.010		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	157	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		NT
TOTAL	8,456	0					
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)							

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	707	0			0.005 ^		0.1
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	346	0			0.015 ^		NT
Cranberries, Frozen	150	0			0.015 ^		NT
Canned	566	0			0.001 ^		0.1
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.002 ^		0.2
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.015		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.003 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.003 - 0.015		NT
Sweet Peas, Frozen	187	0			0.015 ^		NT
Sweet Potatoes	177	0			0.005 ^		NT
TOTAL	7,054	0					
Penthiopyrad (fungicide)							
Cabbage	707	7	1	0.017 - 0.050	0.010 ^		5.0
Cilantro	177	8	4.5	0.002 - 1.0	0.001 ^		30
Cranberries, Canned	379	0			0.001 ^		3.0
Cranberries, Frozen	150	0			0.001 ^		3.0
Canned	566	0			0.001 ^		0.40
Green Onions	707	13	1.8	0.014 - 0.33	0.010 ^		3.0
Kale	707	88	12.4	0.003 - 14.7	0.002 ^		50
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 ^		4.0
Raisins	756	1	0.1	0.005 ^	0.001 ^	V-1	NT
Snap Peas	703	26	3.7	0.003 - 0.35	0.002 ^		4.0
Spinach, Frozen	188	22	11.7	0.003 - 1.1	0.001 ^		30
Sweet Peas, Frozen	189	3	1.6	0.001 - 0.002	0.001 ^		0.40
TOTAL	7,615	168					
Permethrin Total (insecticide)							
Cabbage	707	9	1.3	0.012 - 0.14	0.005 ^		6.0
Cranberries, Canned	345	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Green Onions	707	5	0.7	0.007 - 0.58	0.005 ^	V-5	NT
Kale	707	25	3.5	0.008 - 3.1	0.005 ^	V-25	NT
Mangoes	441	0			0.005 ^		NT
Olives, Canned	378	4	1.1	0.006 - 0.008	0.005 ^	V-4	NT
Snap Peas	701	10	1.4	0.008 - 0.11	0.005 ^	V-10	NT
Spinach, Frozen	188	88	46.8	0.010 - 7.2	0.005 - 0.050		20
Sweet Peas, Frozen	189	0			0.050 ^		NT
TOTAL	4,513	141					
Permethrin cis (isomer of Permethrin)							
Asparagus	709	3	0.4	0.017 - 0.15	0.010 ^		2.0
Cilantro	177	22	12.4	0.002 - 0.13	0.001 ^	V-22	NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.020 ^		2.0
Mangoes	91	0			0.003 ^		NT
Olives, Canned	191	1	0.5	0.004 ^	0.003 ^	V-1	NT
Peaches, Canned	755	0			0.001 - 0.020		1.0
Plums, Dried / Prunes	567	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
Raisins	756	1	0.1	0.002 ^	0.001 - 0.003	V-1	NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	4,708	27					
Permethrin trans (isomer of Permethrin)							
Asparagus	709	3	0.4	0.021 - 0.21	0.010 ^		2.0
Cilantro	177	22	12.4	0.002 - 0.17	0.001 ^	V-22	NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		2.0
Mangoes	91	0			0.003 ^		NT
Olives, Canned	191	4	2.1	0.004 - 0.009	0.003 ^	V-4	NT
Peaches, Canned	755	1	0.1	0.002 ^	0.001 - 0.010		1.0
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	2	0.3	0.002 ^	0.001 - 0.004	V-2	NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,708	32					
Phenmedipham (herbicide)							
Spinach, Frozen	86	1	1.2	0.010 ^	0.005 ^		4.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	275	1					
Phenothrin (insecticide)							
Asparagus	709	0			0.050 ^		0.01
Cabbage	687	0			0.005 ^		0.01
Cilantro	177	0			0.002 ^		0.01
Cranberries, Canned	378	0			0.025 ^		0.01
Cranberries, Frozen	125	0			0.025 ^		0.01
Canned	566	0			0.002 ^		0.01
Green Onions	707	0			0.005 ^		0.01
Kale	707	0			0.004 ^		0.01
Kiwi Fruit	530	0			0.15 ^		0.01
Mangoes	532	0			0.005 - 0.025		0.01
Olives, Canned	569	0			0.005 ^		0.01
Peaches, Canned	755	0			0.002 - 0.15		0.01
Plums, Dried / Prunes	567	0			0.050 ^		0.01
Raisins	756	0			0.002 ^		0.01
Snap Peas	703	0			0.004 ^		0.01
Spinach, Frozen	188	0			0.005 - 0.025		0.01
Strawberries, Frozen	189	0			0.050 ^		0.01
Sweet Peas, Frozen	189	0			0.025 ^		0.01
Sweet Potatoes	<u>177</u>	<u>0</u>			0.15 ^		0.01
TOTAL	9,211	0					
Phenthoate (insecticide)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,845	0					
o-Phenylphenol (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	709	0			0.005 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	261	0			0.010 ^		NT
Peaches, Canned	755	0			0.001 - 0.040		20
Plums, Dried / Prunes	567	1	0.2	0.009 ^	0.005 ^		20
Strawberries, Frozen	189	0			0.005 ^		NT
TOTAL	3,539	1					
Phorate (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	378	0			0.030 ^		NT
Cranberries, Frozen	150	0			0.030 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.17 ^		NT
Mangoes	532	0			0.005 - 0.030		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.003 - 0.17		NT
Raisins	756	0			0.001 - 0.006		NT
Spinach, Frozen	188	0			0.005 - 0.030		NT
Sweet Peas, Frozen	189	0			0.030 ^		NT
Sweet Potatoes	177	0			0.17 ^		NT
TOTAL	6,204	0					
Phorate oxygen analog (metabolite of Phorate)							
Cilantro	177	0			0.001 - 0.003		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.005 ^		NT
TOTAL	2,845	0					
Phorate oxygen analog sulfone (metabolite of Phorate)							
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	177	0			0.010 ^		NT
TOTAL	4,968	0					
Phorate oxygen analog sulfoxide (metabolite of Phorate)							
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	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
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,968	0					
Phorate sulfone (metabolite of Phorate)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	118	0			0.002 - 0.005		NT
Cranberries, Canned	379	0			0.025 ^		NT
Cranberries, Frozen	150	0			0.025 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	532	0			0.003 - 0.025		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.030		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.003 - 0.025		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.025 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.030 ^		NT
TOTAL	7,788	0					
Phorate sulfoxide (metabolite of Phorate)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	138	0			0.001 - 0.003		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.001 - 0.003		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,808	0					
Phosalone (insecticide)							
Asparagus	709	0			0.001 ^		NT
Cabbage	706	0			0.005 ^		NT
Cilantro	177	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	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
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.015		NT
Plums, Dried / Prunes	567	0			0.001 ^		NT
Raisins	756	1	0.1	0.010 ^	0.002 ^	V-1	NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	177	0			0.015 ^		NT
TOTAL	6,781	1					
Phosmet (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	379	0			0.010 ^		10
Cranberries, Frozen	150	0			0.010 ^		10
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.025 ^		25
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.025 ^		10
Plums, Dried / Prunes	567	0			0.010 ^		5
Raisins	756	3	0.4	0.007 - 0.044	0.005 ^		10
Snap Peas	703	0			0.010 ^		1
Spinach, Frozen	188	0			0.001 - 0.010		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	2	1.1	0.013 - 0.023	0.010 ^		1
Sweet Potatoes	177	1	0.6	0.25 ^	0.025 ^		12
TOTAL	8,110	6					
Phosmet oxygen analog (metabolite of Phosmet)							
Asparagus	709	0			0.004 ^		NT
Cranberries, Canned	379	0			0.005 ^		10
Cranberries, Frozen	150	0			0.005 ^		10
Kale	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		25
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		10
Plums, Dried / Prunes	567	0			0.004 ^		5
Snap Peas	703	0			0.010 ^		1
Spinach, Frozen	158	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.004 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		1
Sweet Potatoes	177	0			0.010 ^		12
TOTAL	5,910	0					
Phosphamidon (insecticide)							
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	404	0			0.001 - 0.003		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	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
TOTAL	4,259	0					
Phoxim (insecticide)							
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.025 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.025 ^		NT
TOTAL	2,000	0					
Picoxystrobin (fungicide)							
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.001 ^		NT
Spinach, Frozen	188	0			0.005 ^		30
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		0.90
TOTAL	2,887	0					
Pinoxaden (herbicide)							
Mangoes	271	0			0.020 ^		NT
Olives, Canned	569	0			0.020 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.020 ^		NT
TOTAL	942	0					
Piperonyl butoxide (insecticide)							
Asparagus	709	0			0.005 ^		10
Cabbage	707	0			0.005 ^		10
Cilantro	177	2	1.1	0.015 - 0.059	0.002 ^		10
Cranberries, Canned	345	0			0.025 ^		10
Cranberries, Frozen	125	0			0.025 ^		10
Canned	566	2	0.4	0.003 - 0.020	0.002 ^		10
Green Onions	707	0			0.005 ^		10
Kale	706	4	0.6	0.007 - 0.67	0.004 ^		10
Kiwi Fruit	530	0			0.015 ^		10
Mangoes	532	0			0.003 - 0.025		10
Olives, Canned	569	0			0.003 ^		10
Peaches, Canned	755	0			0.002 - 0.015		10
Plums, Dried / Prunes	567	34	6	0.005 - 0.62	0.005 ^		10
Raisins	756	118	15.6	0.003 - 0.21	0.002 ^		10
Snap Peas	703	14	2	0.007 - 0.11	0.004 ^		10
Spinach, Frozen	188	0			0.003 - 0.025		10
Strawberries, Frozen	189	1	0.5	0.10 ^	0.005 ^		10
Sweet Peas, Frozen	157	0			0.025 ^		10
Sweet Potatoes	<u>177</u>	<u>11</u>	6.2	0.019 - 0.26	0.015 ^	X-1	0.25
TOTAL	9,165	186					
Pirimicarb (insecticide)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	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
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	5,317	0					
Pirimicarb desmethyl (metabolite of Pirimicarb)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		NT
TOTAL	3,414	0					
Pirimiphos ethyl (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Pirimiphos methyl (insecticide)							
Asparagus	709	0			0.001 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	1	0.4	0.001 ^	0.001 ^	V-1	NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	2	0.4	0.001 - 0.006	0.001 ^	V-2	NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	6,782	3					
Prallethrin (insecticide)							
Asparagus	709	0			0.008 ^		1.0
Cranberries, Canned	379	1	0.3	0.12 ^	0.030 ^		1.0
Cranberries, Frozen	150	0			0.030 ^		1.0
Kale	707	0			0.005 ^		1.0
Kiwi Fruit	530	0			0.10 ^		1.0
Mangoes	532	0			0.020 - 0.030		1.0
Olives, Canned	569	0			0.020 ^		1.0
Peaches, Canned	351	0			0.10 ^		1.0
Plums, Dried / Prunes	566	0			0.008 ^		1.0
Snap Peas	703	0			0.005 ^		1.0
Spinach, Frozen	188	0			0.020 - 0.030		1.0
Strawberries, Frozen	189	0			0.008 ^		1.0
Sweet Peas, Frozen	189	0			0.030 ^		1.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.10 ^		1.0
TOTAL	5,939	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
Pretilachlor (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Primisulfuron methyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Prochloraz (fungicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,356	0					
Procymidone (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	1	0.5	0.24 ^	0.010 ^	V-1	NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,879	1					
Prodiamine (herbicide)							
Kiwi Fruit	530	0			0.005 ^		NT
Peaches, Canned	<u>351</u>	<u>0</u>			0.005 ^		NT
TOTAL	881	0					
Profenofos (insecticide)							
Asparagus	709	0			0.075 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	1	0.6	0.017 ^	0.003 ^	V-1	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	568	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.006		NT
Plums, Dried / Prunes	567	0			0.075 ^		NT
Raisins	756	2	0.3	0.002 - 0.009	0.001 - 0.003	V-2	NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.075 ^		NT
Sweet Peas, Frozen	189	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
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	7,845	3					
Profluralin (herbicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Profoxydim (herbicide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Promecarb (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Prometon (herbicide)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	<u>756</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,784	0					
Prometryn (herbicide)							
Cilantro	177	56	31.6	0.002 - 0.15	0.001 ^		3.5
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>2</u>	2	0.001 - 0.007	0.001 ^	V-2	NT
TOTAL	3,726	58					
Pronamide (herbicide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	1	0.1	0.010 ^	0.005 ^	V-1	NT
Cilantro	177	21	11.9	0.002 - 0.007	0.001 ^	V-21	NT
Cranberries, Canned	378	0			0.005 ^		0.05
Cranberries, Frozen	150	0			0.005 ^		0.05
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.015 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.015		0.1
Plums, Dried / Prunes	567	0			0.002 ^		0.1
Raisins	756	0			0.001 ^		0.1
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	1	0.5	0.002 ^	0.002 ^	V-1	NT
Sweet Peas, Frozen	189	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
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	7,846	23					
Propachlor (herbicide)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.003 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,845	0					
Propamocarb (fungicide)							
Cabbage	707	1	0.1	0.021 ^	0.010 ^	V-1	NT
Green Onions	707	3	0.4	0.024 - 0.20	0.010 ^	V-3	NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>6</u>	5.9	0.001 - 0.045	0.001 ^	V-6	NT
TOTAL	2,356	10					
Propamocarb hydrochloride ⁴ (fungicide)							
Asparagus	709	0			0.002 ^		NT
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	258	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	504	0			0.002 ^		NT
Strawberries, Frozen	189	1	0.5	0.022 ^	0.002 ^	V-1	NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,247	1					
Propanil (herbicide)							
Mangoes	241	0			0.001 ^		NT
Olives, Canned	569	1	0.2	0.002 ^	0.001 ^	V-1	NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	912	1					
Propaquizafop (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Propargite (insecticide)							
Asparagus	709	0			0.050 ^		NT
Cabbage	707	0			0.020 ^		NT
Cilantro	177	0			0.006 - 0.020		NT
Cranberries, Canned	378	0			0.025 ^		NT
Cranberries, Frozen	150	0			0.025 ^		NT
Canned	566	0			0.006 ^		NT
Green Onions	707	0			0.020 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	532	0			0.001 - 0.025		NT
Olives, Canned	569	5	0.9	0.001 - 0.003	0.001 ^	V-5	NT
Peaches, Canned	755	0			0.006 - 0.040		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
Plums, Dried / Prunes	567	0			0.050 ^		NT
Raisins	756	9	1.2	0.010 - 0.026	0.006 ^		10.0
Spinach, Frozen	188	0			0.001 - 0.025		NT
Strawberries, Frozen	189	0			0.050 ^		NT
Sweet Peas, Frozen	189	0			0.025 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.040 ^		NT
TOTAL	7,846	14					
Propazine (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Propetamphos (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	60	0			0.003 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 - 0.006		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.001 - 0.020		NT
Plums, Dried / Prunes	536	0			0.010 ^		NT
Raisins	756	0			0.001 - 0.003		NT
Snap Peas	703	0			0.010 ^		NT
Spinach, Frozen	188	0			0.005 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	9,108	0					
Propham (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	538	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	911	0					
Propiconazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	12	6.8	0.008 - 1.7	0.005 ^		13
Cranberries, Canned	378	0			0.005 ^		1.0
Cranberries, Frozen	150	0			0.005 ^		1.0
Canned	566	0			0.005 ^		0.10
Green Onions	707	0			0.010 ^		9.0
Kale	707	2	0.3	0.042 - 0.10	0.005 ^		20
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	445	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	1	0.1	0.025 ^	0.015 - 0.020		4.0
Plums, Dried / Prunes	567	1	0.2	0.010 ^	0.010 ^		0.60
Raisins	756	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
Spinach, Frozen	188	1	0.5	0.024 ^	0.001 - 0.005	V-1	NT
Strawberries, Frozen	189	4	2.1	0.014 - 0.030	0.010 ^		1.3
Sweet Peas, Frozen	157	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	8,434	21					
Propoxycarbazone (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	102	0					
Proquinazid (fungicide)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Prosulfuron (herbicide)							
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,888	0					
Prothioconazole (fungicide)							
Cranberries, Canned	379	0			0.10 ^		2.0
Cranberries, Frozen	150	0			0.10 ^		2.0
Kiwi Fruit	530	0			0.10 ^		NT
Mangoes	261	0			0.10 ^		NT
Peaches, Canned	351	0			0.10 ^		NT
Spinach, Frozen	86	0			0.10 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.10 ^		NT
TOTAL	1,946	0					
Prothiofos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	271	0			0.001 ^		NT
Peaches, Canned	351	0			0.040 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	2,845	0					
Pymetrozine (insecticide)							
Cabbage	707	0			0.010 ^		0.5
Cilantro	177	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Kale	707	0			0.050 ^		0.25
Kiwi Fruit	530	0			0.085 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.085		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
Raisins	756	0			0.005 ^		NT
Spinach, Frozen	102	2	2	0.006 - 0.061	0.001 ^		0.6
Sweet Potatoes	<u>177</u>	<u>0</u>			0.085 ^		0.02
TOTAL	6,024	2					
Pyraclofos (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Pyraclostrobin (fungicide)							
Asparagus	709	0			0.003 ^		NT
Cabbage	707	18	2.5	0.003 - 0.11	0.003 ^		5.0
Cilantro	177	34	19.2	0.002 - 6.7	0.001 ^		40
Cranberries, Canned	379	0			0.001 ^		4.0
Cranberries, Frozen	150	0			0.001 ^		4.0
Canned	566	0			0.001 ^		0.5
Green Onions	707	6	0.8	0.006 - 0.42	0.003 ^		0.9
Kale	707	138	19.5	0.003 - 11.1	0.002 ^		16
Kiwi Fruit	530	1	0.2	0.054 ^	0.005 ^	V-1	NT
Mangoes	532	12	2.3	0.001 - 0.006	0.001 ^		0.6
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		2.5
Plums, Dried / Prunes	567	3	0.5	0.005 - 0.006	0.003 ^		2.5
Raisins	756	494	65.3	0.002 - 0.70	0.001 ^		7.0
Snap Peas	703	35	5	0.003 - 0.33	0.002 ^		0.5
Spinach, Frozen	188	40	21.3	0.001 - 1.8	0.001 ^		40
Strawberries, Frozen	189	52	27.5	0.003 - 0.11	0.003 ^		1.2
Sweet Peas, Frozen	189	31	16.4	0.001 - 0.051	0.001 ^		0.2
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.04
TOTAL	9,257	864					
Pyraflufen ethyl (herbicide)							
Asparagus	680	0			0.020 ^		NT
Kiwi Fruit	530	0			0.030 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		0.01
Peaches, Canned	351	0			0.030 ^		0.01
Plums, Dried / Prunes	567	0			0.010 - 0.020		0.01
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.020 ^		NT
TOTAL	3,259	0					
Pyrazon (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Pyrazophos (fungicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	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
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,414	0					
Pyrethrins (insecticide)							
Kiwi Fruit	530	0			0.20 ^		1.0
Peaches, Canned	351	0			0.20 ^		1.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.20 ^		1.0
TOTAL	1,058	0					
Pyridaben (insecticide, acaricide)							
Asparagus	679	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	346	0			0.005 ^		0.5
Cranberries, Frozen	150	0			0.005 ^		0.5
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.001 ^		NT
Mangoes	532	0			0.001 - 0.005		0.10
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.001 ^		3.0
Plums, Dried / Prunes	567	0			0.005 ^		3.0
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.005 ^		2.5
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.001 ^		NT
TOTAL	5,881	0					
Pyridalyl (insecticide)							
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		20
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,275	0					
Pyridaphenthion (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Pyridate (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Pyrimethanil (fungicide)							
Asparagus	709	0			0.050 ^		NT
Cabbage	707	0			0.003 ^		NT
Cilantro	177	3	1.7	0.002 - 0.007	0.001 ^	V-3	NT
Cranberries, Canned	378	0			0.005 ^		8.0
Cranberries, Frozen	150	0			0.005 ^		8.0
Canned	566	0			0.001 ^		NT
Green Onions	707	1	0.1	0.006 ^	0.003 ^		3.0
Kiwi Fruit	530	6	1.1	0.005 - 0.015	0.005 ^	V-6	NT
Mangoes	532	0			0.005 ^		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	13	1.7	0.002 - 0.075	0.001 - 0.005		10
Plums, Dried / Prunes	567	0			0.050 ^		10
Raisins	756	50	6.6	0.002 - 0.57	0.001 ^		8.0
Spinach, Frozen	188	0			0.005 ^		NT
Strawberries, Frozen	189	31	16.4	0.057 - 0.74	0.050 ^		3.0
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.05
TOTAL	7,846	104					
Pyriproxyfen (insecticide, growth regulator)							
Asparagus	709	0			0.001 ^		2.0
Cabbage	707	0			0.005 ^		0.70
Cilantro	177	0			0.002 ^		100
Cranberries, Canned	379	3	0.8	0.002 - 0.017	0.001 ^		1.0
Cranberries, Frozen	150	0			0.001 ^		1.0
Canned	566	0			0.002 ^		0.20
Green Onions	707	0			0.005 ^		0.70
Kale	707	4	0.6	0.008 - 0.024	0.001 ^		2.0
Kiwi Fruit	530	2	0.4	0.013 - 0.017	0.005 ^		0.35
Mangoes	532	0			0.001 ^		1.0
Olives, Canned	569	4	0.7	0.001 - 0.002	0.001 ^		1.0
Peaches, Canned	755	0			0.002 - 0.005		1.0
Plums, Dried / Prunes	567	4	0.7	0.001 - 0.005	0.001 ^		1.0
Raisins	756	19	2.5	0.004 - 0.011	0.002 ^		2.5
Snap Peas	703	0			0.001 ^		0.20
Spinach, Frozen	188	0			0.001 ^		3.0
Strawberries, Frozen	189	3	1.6	0.017 - 0.37	0.001 ^	X-1	0.30
Sweet Peas, Frozen	189	0			0.001 ^		0.20
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.15
TOTAL	9,257	39					
Pyroxasulfone (herbicide)							
Kiwi Fruit	530	0			0.005 - 0.010		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	1,823	0					
Pyroxsulam (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Quinalphos (insecticide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,414	0					
Quinoxifen (fungicide)							
Asparagus	709	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
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.001 ^		1.0
Cranberries, Frozen	150	0			0.001 ^		1.0
Canned	566	0			0.001 - 0.004		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		0.70
Plums, Dried / Prunes	567	0			0.020 ^		0.70
Raisins	756	562	74.3	0.002 - 0.095	0.001 ^		2.0
Spinach, Frozen	188	4	2.1	0.001 - 0.002	0.001 ^	V-4	NT
Strawberries, Frozen	189	0			0.020 ^		1.0
Sweet Peas, Frozen	189	0			0.001 ^		NT
TOTAL	7,670	566					

Quintozene - PCNB (fungicide) (parent of HCB, PCA, PCB and PCPMS)

Cabbage	707	0			0.005 ^		0.1
Cilantro	177	23	13	0.002 - 0.006	0.001 ^	V-23	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		0.1
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.002 ^		0.2
Kiwi Fruit	530	0			0.025 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.025		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	7	3.7	0.001 - 0.002	0.001 - 0.005	V-7	NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	177	0			0.025 ^		NT
TOTAL	7,088	30					

Quizalofop ethyl (herbicide)

Cranberries, Canned	378	0			0.025 ^		NT
Cranberries, Frozen	150	0			0.025 ^		NT
Mangoes	532	0			0.001 - 0.025		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.025		NT
Sweet Peas, Frozen	189	0			0.025 ^		0.3
TOTAL	2,006	0					

Resmethrin (insecticide)

Cabbage	687	0			0.020 ^		3.0
Green Onions	626	0			0.020 ^		3.0
Kale	707	0			0.010 ^		3.0
Kiwi Fruit	530	0			0.030 ^		3.0
Mangoes	387	0			0.003 - 0.050		3.0
Olives, Canned	506	0			0.003 ^		3.0
Peaches, Canned	351	0			0.030 ^		3.0
Snap Peas	703	0			0.010 ^		3.0
Spinach, Frozen	158	0			0.003 - 0.050		3.0
Sweet Peas, Frozen	125	0			0.050 ^		3.0
Sweet Potatoes	177	0			0.030 ^		3.0
TOTAL	4,957	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
Resmethrin cis (isomer of Resmethrin)							
Asparagus	501	0			0.050 ^		3.0
Canned	566	0			0.002 ^		3.0
Peaches, Canned	404	0			0.002 ^		3.0
Plums, Dried / Prunes	567	0			0.050 ^		3.0
Raisins	<u>756</u>	<u>0</u>			0.002 ^		3.0
TOTAL	2,794	0					
Resmethrin trans (isomer of Resmethrin)							
Asparagus	622	0			0.050 ^		3.0
Cilantro	177	0			0.008 ^		3.0
Canned	566	0			0.002 ^		3.0
Peaches, Canned	404	0			0.002 ^		3.0
Plums, Dried / Prunes	565	0			0.050 ^		3.0
Raisins	756	0			0.002 ^		3.0
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.050 ^		3.0
TOTAL	3,279	0					
Rimsulfuron (herbicide)							
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	0			0.005 ^		0.01
Cranberries, Frozen	150	0			0.005 ^		0.01
Green Onions	707	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,421	0					
Rotenone (insecticide)							
Mangoes	271	0			0.003 ^		EX2
Olives, Canned	569	0			0.003 ^		EX2
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		EX2
TOTAL	942	0					
Saflufenacil (herbicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	348	0			0.020 ^		NT
Cranberries, Frozen	150	0			0.020 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.020		0.03
Olives, Canned	569	0			0.003 ^		0.03
Plums, Dried / Prunes	473	0			0.010 ^		0.03
Snap Peas	703	0			0.010 ^		0.03
Spinach, Frozen	188	0			0.003 - 0.020		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.020 ^		0.03
TOTAL	5,464	0					
Sedaxane (fungicide)							
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.050 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			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
TOTAL	1,823	0					
Sethoxydim (herbicide)							
Asparagus	680	0			0.003 ^		4.0
Cranberries, Canned	379	0			0.005 ^		4.0
Cranberries, Frozen	150	0			0.005 ^		4.0
Kale	707	0			0.002 ^		5.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		0.2
Plums, Dried / Prunes	536	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		4.0
Strawberries, Frozen	189	0			0.003 ^		10
Sweet Peas, Frozen	189	0			0.005 ^		10
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		4.0
TOTAL	5,177	0					
Siduron (herbicide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Simazine (herbicide)							
Asparagus	709	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		0.25
Cranberries, Frozen	150	0			0.005 ^		0.25
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		0.20
Peaches, Canned	755	0			0.001 - 0.010		0.20
Plums, Dried / Prunes	567	0			0.005 ^		0.20
Raisins	756	0			0.001 ^		0.20
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.005 ^		0.25
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	6,432	0					
Simetryn (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	<u>707</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,414	0					
Spinetoram (insecticide)							
Asparagus	709	1	0.1	0.005 ^	0.003 ^		0.04
Cabbage	707	0			0.010 ^		2.0
Cilantro	177	5	2.8	0.004 - 0.032	0.003 ^		3.0
Cranberries, Canned	348	0			0.001 ^		0.50
Cranberries, Frozen	150	3	2	0.001 - 0.003	0.001 ^		0.50
Canned	566	0			0.001 ^		0.04
Green Onions	707	9	1.3	0.010 - 0.024	0.010 ^		2.0
Kale	707	92	13	0.017 - 0.41	0.010 ^		10
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.010		0.30
Olives, Canned	569	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
Peaches, Canned	755	0			0.001 - 0.010		0.30
Plums, Dried / Prunes	536	0			0.003 ^		0.30
Raisins	756	2	0.3	0.002 - 0.004	0.001 ^		0.70
Snap Peas	703	15	2.1	0.017 ^	0.010 ^		0.30
Spinach, Frozen	188	12	6.4	0.007 - 0.26	0.005 - 0.010		8.0
Strawberries, Frozen	189	6	3.2	0.005 - 0.011	0.003 ^		0.90
Sweet Peas, Frozen	189	0			0.005 ^		0.04
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.10
TOTAL	9,195	145					
Spinosad (insecticide) (total of spinosyns A and D)							
Cabbage	707	1	0.1	0.009 ^	0.004 ^		2.0
Cilantro	177	0			0.003 ^		3.0
Cranberries, Canned	379	0			0.002 ^		0.01
Cranberries, Frozen	150	2	1.3	0.002 ^	0.002 ^		0.01
Canned	566	0			0.001 ^		0.02
Green Onions	707	29	4.1	0.004 - 0.060	0.004 ^		4.0
Kale	707	26	3.7	0.003 - 1.2	0.002 ^		10.0
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.002 - 0.003		0.3
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		0.20
Raisins	756	0			0.001 ^		1.0
Snap Peas	703	31	4.4	0.003 - 0.049	0.002 ^		0.30
Spinach, Frozen	188	4	2.1	0.002 - 0.074	0.002 - 0.008		8.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.002 ^		0.02
TOTAL	7,615	93					
Spinosad A (isomer of Spinosad)							
Asparagus	709	0			0.003 ^		0.2
Plums, Dried / Prunes	536	0			0.003 ^		0.20
Strawberries, Frozen	189	13	6.9	0.004 - 0.015	0.003 ^		0.90
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.10
TOTAL	1,611	13					
Spinosad D (isomer of Spinosad)							
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.10
TOTAL	177	0					
Spirodiclofen (acaricide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	157	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.005 ^		NT
Green Onions	648	0			0.010 ^		NT
Kiwi Fruit	530	1	0.2	0.013 ^	0.010 ^	V-1	NT
Mangoes	503	0			0.003 - 0.005		1.0
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.005 - 0.010		1.0
Plums, Dried / Prunes	567	2	0.4	0.011 - 0.016	0.010 ^		1.0
Raisins	756	106	14	0.008 - 0.35	0.005 - 0.015		6.0
Spinach, Frozen	188	0			0.003 - 0.005		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	95	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	7,266	109					

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
Spiromesifen Total (parent + enol metabolite) (insecticide)							
Cilantro	138	0			0.008 - 0.016		NT
Canned	566	0			0.002 ^		0.02
Raisins	<u>756</u>	<u>0</u>			0.002 ^		NT
TOTAL	1,460	0					
Spiromesifen (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cranberries, Canned	314	0			0.010 ^		2.0
Cranberries, Frozen	150	0			0.010 ^		2.0
Green Onions	707	0			0.002 ^		0.09
Kale	707	7	1	0.002 - 0.34	0.001 ^		12
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.010		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		12
Strawberries, Frozen	189	10	5.3	0.012 - 0.23	0.010 ^		2.0
Sweet Peas, Frozen	<u>157</u>	<u>0</u>			0.010 ^		NT
TOTAL	5,670	17					
Spiromesifen alcohol (metabolite of Spiromesifen)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		12
TOTAL	942	0					
Spiromesifen enol metabolite (metabolite of Spiromesifen)							
Kiwi Fruit	530	0			0.010 ^		NT
Peaches, Canned	<u>351</u>	<u>0</u>			0.010 - 0.070		NT
TOTAL	881	0					
Spirotetramat (insecticide)							
Asparagus	709	0			0.002 ^		0.10
Cabbage	707	1	0.1	0.015 ^	0.010 ^		2.5
Cilantro	177	0			0.002 - 0.005		NT
Cranberries, Canned	379	0			0.002 ^		3.0
Cranberries, Frozen	150	0			0.002 ^		3.0
Canned	566	0			0.002 ^		2.5
Green Onions	707	0			0.010 ^		0.80
Kale	707	92	13	0.008 - 1.5	0.005 ^		8.0
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.001 - 0.002		0.60
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.002 - 0.005		4.5
Plums, Dried / Prunes	567	0			0.002 ^		4.5
Raisins	756	534	70.6	0.003 - 0.13	0.002 ^		3.0
Snap Peas	703	3	0.4	0.008 ^	0.005 ^		2.5
Spinach, Frozen	188	2	1.1	0.001 - 0.004	0.001 - 0.002		9.0
Strawberries, Frozen	189	2	1.1	0.002 - 0.005	0.002 ^		0.40
Sweet Peas, Frozen	189	0			0.002 ^		2.5
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.60
TOTAL	9,257	634					
Spiroxamine (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	709	0			0.010 ^		0.05
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,879	0					
Sulfallate (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Sulfentrazone (herbicide)							
Cabbage	707	0			0.005 ^		0.20
Cranberries, Canned	348	0			0.015 ^		0.15
Cranberries, Frozen	150	0			0.015 ^		0.15
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.020 ^		0.60
Kiwi Fruit	530	0			0.035 ^		0.15
Mangoes	532	0			0.003 - 0.015		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.035 ^		NT
Snap Peas	703	0			0.020 ^		0.15
Spinach, Frozen	188	0			0.003 - 0.015		NT
Sweet Peas, Frozen	189	0			0.015 ^		0.15
Sweet Potatoes	<u>177</u>	<u>0</u>			0.035 ^		0.15
TOTAL	5,858	0					
Sulfometuron methyl (herbicide)							
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	942	0					
Sulfosulfuron (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Sulfoxaflor (insecticide)							
Cilantro	177	0			0.004 ^		NT
Cranberries, Canned	379	0			0.050 ^		0.70
Cranberries, Frozen	150	0			0.050 ^		0.70
Canned	566	0			0.001 - 0.004		4.0
Kale	707	12	1.7	0.033 - 0.24	0.020 ^		2.0
Mangoes	532	0			0.003 - 0.050		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	404	0			0.001 - 0.004		3.0
Raisins	756	0			0.001 - 0.008		6.0
Spinach, Frozen	188	1	0.5	0.013 ^	0.003 - 0.050		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
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.050 ^		NT
TOTAL	4,617	13					
Sulprofos (insecticide)							
Cilantro	177	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	2,845	0					
TCMTB (fungicide)							
Cranberries, Canned	378	0			0.10 ^		NT
Cranberries, Frozen	150	0			0.10 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	503	0			0.005 - 0.10		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	158	0			0.005 - 0.10		NT
Sweet Peas, Frozen	<u>127</u>	<u>0</u>			0.10 ^		NT
TOTAL	2,766	0					
Tebuconazole (fungicide)							
Asparagus	709	0			0.010 ^		0.05
Cabbage	707	7	1	0.007 - 0.20	0.005 ^	V-7	NT
Cilantro	177	6	3.4	0.004 - 2.0	0.003 ^	V-6	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		0.1
Green Onions	707	1	0.1	0.062 ^	0.005 ^		1.3
Kale	707	26	3.7	0.008 - 2.1	0.005 ^		2.5
Kiwi Fruit	530	6	1.1	0.026 - 0.90	0.015 ^	V-6	NT
Mangoes	532	3	0.6	0.004 - 0.009	0.003 - 0.005		0.15
Olives, Canned	569	6	1.1	0.006 - 0.067	0.003 ^	V-6	NT
Peaches, Canned	755	16	2.1	0.002 - 0.005	0.001 - 0.015		1.0
Plums, Dried / Prunes	535	2	0.4	0.020 - 0.023	0.010 ^		1.0
Raisins	756	467	61.8	0.002 - 0.35	0.001 ^		5.0
Snap Peas	703	99	14.1	0.008 - 0.29	0.005 ^	V-99	NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Strawberries, Frozen	189	1	0.5	0.011 ^	0.010 ^	V-1	NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.015 ^		NT
TOTAL	9,224	640					
Tebufenozide (insecticide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	0			0.005 ^		5.0
Cilantro	177	0			0.005 ^		NT
Cranberries, Canned	379	1	0.3	0.015 ^	0.002 ^		1.0
Cranberries, Frozen	150	0			0.002 ^		1.0
Canned	545	0			0.002 - 0.010		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		0.5
Mangoes	532	0			0.002 - 0.005		NT
Olives, Canned	569	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
Peaches, Canned	755	0			0.002 - 0.010		NT
Plums, Dried / Prunes	536	0			0.002 ^		NT
Raisins	756	0			0.002 - 0.010		3.0
Spinach, Frozen	188	2	1.1	0.003 - 0.008	0.002 - 0.005		10.0
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.002 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.015
TOTAL	7,795	3					
Tebufenpyrad (insecticide, acaricide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,414	0					
Tebupirimfos (insecticide)							
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Olives, Canned	506	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,511	0					
Tebuthiuron (herbicide)							
Cilantro	177	0			0.003 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	2,845	0					
Tecnazene (plant growth regulator)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	4,259	0					
Teflubenzuron (insecticide)							
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	532	0			0.005 - 0.010		1.5
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Spinach, Frozen	188	0			0.005 - 0.010		NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,536	0					
Tefluthrin (insecticide)							
Asparagus	709	0			0.002 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.002 ^		NT
Raisins	756	0			0.001 ^		NT
Snap Peas	703	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Strawberries, Frozen	189	0			0.002 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	9,256	0					
Tepraloxym (herbicide)							
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Mangoes	532	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Spinach, Frozen	188	0			0.010 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	2,007	0					
Terbacil (herbicide)							
Asparagus	709	0			0.010 ^		0.4
Cabbage	707	0			0.008 ^		NT
Cilantro	177	1	0.6	0.005 ^	0.003 ^	V-1	NT
Canned	566	0			0.003 ^		NT
Green Onions	707	0			0.008 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	378	0			0.001 ^		NT
Peaches, Canned	755	0			0.003 - 0.020		0.2
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.010 ^		0.1
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	6,591	1					
Terbufos (insecticide)							
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	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
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,887	0					
Terbufos oxygen analog (metabolite of Terbufos)							
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	261	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	86	0			0.001 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	1,946	0					
Terbufos oxygen analog sulfone (metabolite of Terbufos)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	412	0			0.005 - 0.010		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.005 - 0.010		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	2,199	0					
Terbufos oxygen analog sulfoxide (metabolite of Terbufos)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	261	0			0.005 ^		NT
Spinach, Frozen	86	0			0.005 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,065	0					
Terbufos sulfone (metabolite of Terbufos)							
Cilantro	177	0			0.003 ^		NT
Cranberries, Canned	378	0			0.025 ^		NT
Cranberries, Frozen	150	0			0.025 ^		NT
Canned	566	0			0.001 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.005 - 0.025		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	188	0			0.005 - 0.025		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.025 ^		NT
TOTAL	4,790	0					
Terbufos sulfoxide (metabolite of Terbufos)							
Cranberries, Canned	379	1	0.3	0.002 ^	0.002 ^	V-1	NT
Cranberries, Frozen	150	0			0.002 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.002 - 0.003		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	188	0			0.002 - 0.003		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			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
TOTAL	2,888	1					
Terbuthylazine (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,414	0					
Terbutryn (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	187	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	560	0					
Tetrachlorvinphos (insecticide)							
Cilantro	177	0			0.005 ^		NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.002 ^		NT
Mangoes	532	0			0.001 - 0.005		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	404	0			0.002 ^		NT
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	3,910	0					
Tetraconazole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cilantro	139	1	0.7	0.007 ^	0.001 ^	V-1	NT
Canned	503	0			0.001 - 0.003		0.09
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	704	0			0.001 - 0.010		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	630	355	56.3	0.002 - 0.21	0.001 - 0.003	X-1	0.20
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	<u>189</u>	<u>4</u>	2.1	0.011 - 0.022	0.010 ^		0.25
TOTAL	4,913	360					
Tetradifon (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.002 ^		NT
Canned	566	0			0.002 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.002 - 0.020		NT
Plums, Dried / Prunes	567	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
Raisins	756	0			0.002 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	6,782	0					
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)							
Asparagus	709	1	0.1	0.024 ^	0.010 ^	V-1	NT
Cilantro	177	0			0.004 - 0.012		NT
Canned	566	0			0.004 ^		0.05
Kale	707	1	0.1	0.012 ^	0.007 ^		0.05
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	404	0			0.004 ^		15.0
Plums, Dried / Prunes	536	1	0.2	0.039 ^	0.010 ^		10.0
Raisins	756	1	0.1	0.006 ^	0.004 ^		25.0
Snap Peas	703	45	6.4	0.012 - 0.26	0.007 ^	X-9	0.05
Spinach, Frozen	102	0			0.005 ^		0.05
Strawberries, Frozen	<u>189</u>	<u>94</u>	49.7	0.010 - 0.63	0.010 ^		20.0
TOTAL	5,689	143					
Tetramethrin (insecticide)							
Asparagus	709	0			0.005 ^		NT
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	0			0.003 ^		NT
Kiwi Fruit	530	0			0.10 ^		NT
Mangoes	532	0			0.005 - 0.010		NT
Olives, Canned	569	0			0.005 ^		NT
Peaches, Canned	351	0			0.10 ^		NT
Plums, Dried / Prunes	567	0			0.005 ^		NT
Snap Peas	703	0			0.003 ^		NT
Spinach, Frozen	188	0			0.005 - 0.010		NT
Strawberries, Frozen	189	0			0.005 ^		NT
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.10 ^		NT
TOTAL	7,353	0					
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)							
Asparagus	679	0			0.002 ^		NT
Cabbage	707	0			0.010 ^		0.02
Cilantro	177	0			0.001 ^		NT
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		0.02
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	4	0.8	0.007 - 0.030	0.005 ^	V-4	NT
Mangoes	532	154	28.9	0.001 - 2.4	0.001 - 0.005		10.0
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Plums, Dried / Prunes	567	8	1.4	0.002 - 0.003	0.002 ^	V-8	NT
Raisins	756	1	0.1	0.003 ^	0.001 ^	V-1	NT
Spinach, Frozen	188	0			0.001 - 0.005		0.02
Strawberries, Frozen	189	1	0.5	0.003 ^	0.002 ^		5.0
Sweet Peas, Frozen	189	0			0.005 ^		0.02

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Violation	EPA Tolerance Level, ppm
Sweet Potatoes	<u>177</u>	<u>5</u>	2.8	0.006 - 1.0	0.005 ^		10
TOTAL	7,817	173					
Thiacloprid (insecticide)							
Asparagus	709	0			0.001 ^		NT
Cabbage	707	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	2	0.4	0.006 - 0.054	0.005 ^	V-2	NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		0.5
Plums, Dried / Prunes	567	0			0.001 ^		0.5
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	6,782	2					
Thiamethoxam (insecticide) (also a parent of Clothianidin)							
Asparagus	709	0			0.003 ^		0.02
Cabbage	707	30	4.2	0.010 - 0.062	0.010 ^		4.5
Cilantro	177	39	22	0.003 - 0.032	0.002 ^	X-2	0.02
Cranberries, Canned	379	0			0.010 ^		0.02
Cranberries, Frozen	150	0			0.010 ^		0.02
Canned	566	0			0.002 ^		0.02
Green Onions	687	0			0.010 ^		0.02
Kale	707	72	10.2	0.050 - 0.26	0.030 ^		3.0
Kiwi Fruit	530	0			0.005 ^		0.02
Mangoes	532	0			0.001 - 0.010		0.40
Olives, Canned	569	0			0.001 ^		0.02
Peaches, Canned	755	0			0.005 ^		0.5
Plums, Dried / Prunes	567	0			0.003 ^		0.5
Raisins	756	1	0.1	0.008 ^	0.005 ^		0.30
Snap Peas	703	4	0.6	0.050 - 0.24	0.030 ^	X-4	0.02
Spinach, Frozen	188	1	0.5	0.004 ^	0.001 - 0.010		4.0
Strawberries, Frozen	189	58	30.7	0.004 - 0.048	0.003 ^		0.30
Sweet Peas, Frozen	189	0			0.010 ^		0.02
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.02
TOTAL	9,237	205					
Thiazopyr (herbicide)							
Asparagus	709	0			0.008 ^		NT
Cranberries, Canned	379	0			0.001 ^		NT
Cranberries, Frozen	150	0			0.001 ^		NT
Mangoes	532	0			0.001 - 0.003		NT
Olives, Canned	569	0			0.003 ^		NT
Plums, Dried / Prunes	567	0			0.008 ^		NT
Spinach, Frozen	188	0			0.001 - 0.003		NT
Strawberries, Frozen	189	0			0.008 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.001 ^		NT
TOTAL	3,472	0					
Thidiazuron (plant growth regulator)							
Mangoes	271	0			0.005 ^		NT
Olives, Canned	569	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
Spinach, Frozen	<u>102</u>	<u>0</u>			0.005 ^		NT
TOTAL	942	0					
Thiencarbazon methyl (herbicide)							
Kiwi Fruit	530	0			0.020 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.020 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	1,823	0					
Thifensulfuron methyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Thiobencarb (herbicide)							
Asparagus	709	0			0.010 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	404	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Raisins	756	0			0.003 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	4,310	0					
Thiodicarb (insecticide)							
Asparagus	709	0			0.003 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.010 ^		NT
Olives, Canned	569	0			0.010 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Plums, Dried / Prunes	567	0			0.003 ^		NT
Spinach, Frozen	102	0			0.010 ^		35
Strawberries, Frozen	189	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,465	0					
Thionazin (insecticide, fumigant)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Thiophanate methyl (fungicide)							
Cranberries, Canned	379	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Mangoes	261	0			0.005 ^		NT
Spinach, Frozen	86	0			0.005 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,065	0					
Tolclofos methyl (fungicide)							
Mangoes	271	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
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.003 ^		NT
TOTAL	942	0					
Tolfenpyrad (insecticide)							
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		30.0
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	1,217	0					
Tolyfluanid (fungicide)							
Kiwi Fruit	530	0			0.050 ^		NT
Peaches, Canned	351	0			0.050 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.050 ^		NT
TOTAL	1,058	0					
Topramezone (herbicide)							
Cranberries, Canned	379	0			0.10 ^		NT
Cranberries, Frozen	150	0			0.10 ^		NT
Mangoes	58	0			0.10 ^		NT
Spinach, Frozen	<u>86</u>	<u>0</u>			0.10 ^		NT
TOTAL	673	0					
Tri-Allate (herbicide)							
Cabbage	707	0			0.005 ^		NT
Green Onions	707	0			0.005 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		0.2
TOTAL	2,631	0					
Triadimefon (fungicide) (also a parent of Triadimenol)							
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		NT
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	5,317	0					
Triadimenol (fungicide) (also a metabolite of Triadimefon)							
Cabbage	707	0			0.005 ^		NT
Cranberries, Canned	314	0			0.025 ^		NT
Cranberries, Frozen	150	0			0.025 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.040 ^		NT
Mangoes	532	0			0.020 - 0.025		NT
Olives, Canned	569	0			0.020 ^		NT
Peaches, Canned	351	0			0.020 - 0.040		NT
Spinach, Frozen	102	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
Sweet Potatoes	<u>177</u>	<u>0</u>			0.020 ^		NT
TOTAL	4,139	0					
Triasulfuron (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Triazophos (insecticide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	102	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,414	0					
Tribenuron methyl (herbicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Trichlorfon (insecticide)							
Asparagus	709	0			0.010 ^		NT
Cranberries, Canned	379	0			0.040 ^		NT
Cranberries, Frozen	150	0			0.040 ^		NT
Kiwi Fruit	530	0			0.050 ^		NT
Mangoes	532	0			0.003 - 0.040		NT
Olives, Canned	569	0			0.003 - 0.005		NT
Peaches, Canned	351	0			0.050 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.040		NT
Strawberries, Frozen	189	0			0.010 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.040 ^		NT
TOTAL	4,353	0					
Trichloronate (insecticide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Tricyclazole (fungicide)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Trifloxystrobin (fungicide)							
Asparagus	709	0			0.002 ^		0.07
Cabbage	707	2	0.3	0.007 - 0.035	0.005 ^		2.0
Cilantro	177	2	1.1	0.003 - 0.55	0.001 ^		200
Cranberries, Canned	379	0			0.001 ^		1.5
Cranberries, Frozen	150	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
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kale	707	17	2.4	0.003 - 1.8	0.002 ^		30
Kiwi Fruit	530	2	0.4	0.013 - 0.014	0.005 ^	V-2	NT
Mangoes	532	39	7.3	0.001 - 0.073	0.001 ^		0.7
Olives, Canned	569	0			0.001 ^		NT
Peaches, Canned	755	0			0.001 - 0.005		2
Plums, Dried / Prunes	567	5	0.9	0.002 - 0.009	0.002 ^		2
Raisins	756	459	60.7	0.002 - 0.096	0.001 ^		5.0
Spinach, Frozen	188	0			0.001 ^		30
Strawberries, Frozen	189	28	14.8	0.002 - 0.061	0.002 ^		1.5
Sweet Peas, Frozen	189	0			0.001 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		0.04
TOTAL	8,554	554					
Trifloxysulfuron (herbicide)							
Asparagus	709	0			0.020 ^		NT
Cranberries, Canned	379	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.010		NT
Olives, Canned	569	0			0.001 ^		NT
Plums, Dried / Prunes	567	0			0.020 ^		NT
Spinach, Frozen	188	0			0.001 - 0.010		NT
Strawberries, Frozen	189	0			0.020 ^		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	3,472	0					
Triflumezopyrim (insecticide)							
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	102	0					
Triflumizole (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.003 ^		8.0
Cranberries, Canned	378	0			0.010 ^		NT
Cranberries, Frozen	150	0			0.010 ^		NT
Green Onions	707	0			0.003 ^		NT
Kale	707	18	2.5	0.003 - 0.29	0.002 ^		40
Kiwi Fruit	530	0			0.005 ^		NT
Mangoes	532	0			0.003 - 0.010		2.5
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.005 ^		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.010		NT
Strawberries, Frozen	189	1	0.5	2.8 ^	0.010 ^	X-1	2.0
Sweet Peas, Frozen	189	0			0.010 ^		NT
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^		NT
TOTAL	6,650	19					
Trifluralin (herbicide)							
Asparagus	709	0			0.001 ^		0.05
Cabbage	707	0			0.005 ^		0.05
Cilantro	177	7	4	0.002 - 0.016	0.001 ^	V-7	NT
Cranberries, Canned	378	0			0.005 ^		NT
Cranberries, Frozen	150	0			0.005 ^		NT
Canned	566	0			0.001 ^		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
Green Onions	707	0			0.005 ^		0.05
Kale	707	35	5	0.002 - 0.006	0.001 ^		0.05
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		0.05
Plums, Dried / Prunes	565	0			0.001 ^		0.05
Raisins	756	0			0.001 ^		0.05
Snap Peas	703	0			0.001 ^		0.05
Spinach, Frozen	188	0			0.003 - 0.005		NT
Strawberries, Frozen	189	0			0.001 ^		NT
Sweet Peas, Frozen	189	0			0.005 ^		0.05
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		0.05
TOTAL	9,254	42					
Triforine (fungicide)							
Asparagus	709	0			0.010 - 0.020		NT
Plums, Dried / Prunes	567	0			0.010 ^		NT
Strawberries, Frozen	<u>189</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,465	0					
Triticonazole (fungicide)							
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	1	0.3	0.029 ^	0.005 ^	V-1	NT
Cranberries, Frozen	150	0			0.005 ^		NT
Green Onions	707	0			0.010 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	532	0			0.003 - 0.005		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	351	0			0.010 ^		NT
Spinach, Frozen	188	0			0.003 - 0.005		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.005 ^		NT
TOTAL	4,302	1					
Uniconazole (plant growth regulator)							
Mangoes	271	0			0.001 ^		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.001 ^		NT
TOTAL	942	0					
Vernolate (herbicide)							
Cabbage	707	0			0.010 ^		NT
Green Onions	707	0			0.010 ^		NT
Spinach, Frozen	<u>102</u>	<u>0</u>			0.010 ^		NT
TOTAL	1,516	0					
Vinclozolin (fungicide)							
Asparagus	709	0			0.010 ^		NT
Cabbage	707	0			0.005 ^		NT
Cilantro	177	0			0.001 ^		NT
Canned	566	0			0.001 ^		NT
Green Onions	707	0			0.005 ^		NT
Kiwi Fruit	530	0			0.010 ^		NT
Mangoes	271	0			0.003 ^		NT
Olives, Canned	569	0			0.003 ^		NT
Peaches, Canned	755	0			0.001 - 0.010		25.0
Plums, Dried / Prunes	567	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
Raisins	756	0			0.001 ^		NT
Spinach, Frozen	102	0			0.003 ^		NT
Strawberries, Frozen	189	0			0.010 ^		10.0
Sweet Potatoes	<u>177</u>	<u>0</u>			0.010 ^		NT
TOTAL	6,782	0					
Zoxamide (fungicide)							
Cabbage	707	0			0.010 ^		NT
Cranberries, Canned	379	0			0.002 ^		NT
Cranberries, Frozen	150	0			0.002 ^		NT
Green Onions	707	0			0.010 ^		NT
Mangoes	532	0			0.001 - 0.002		NT
Olives, Canned	569	0			0.001 ^		NT
Spinach, Frozen	188	0			0.001 - 0.002		NT
Sweet Peas, Frozen	<u>189</u>	<u>0</u>			0.002 ^		NT
TOTAL	3,421	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 2018 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.

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.

EX2 = Exempt from the requirement of a tolerance when applied to growing crops, in accordance with good agricultural practice.

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 mfenoxam 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 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 through 3 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 4 through 7 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 Rice

Appendix C shows residue detections for all compounds tested in rice, 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 2018 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 2018, the Pesticide Data Program (PDP) analyzed 189 rice samples. PDP detected 38 different residues (including metabolites), representing 37 pesticides, in the rice samples.

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

Results for environmental contaminants across all commodities, including rice, 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 RICE

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
DMPF)	I	189				0.0026 - 0.005	NT
2,6-DIPN (V-6)	P	189	6	3.2	0.0016 - 0.013	0.0012 - 0.005	NT
3-Hydroxycarbofuran	IM	189				0.0012 - 0.0013	0.2
5-Hydroxythiabendazole	FM	189				0.0012 - 0.0013	NT
Abamectin	I	189				0.020 ^	0.01
Acephate	I	189				0.005 ^	0.02
Acetamiprid	I	189	2	1.1	0.0013 - 0.0014	0.0012 - 0.0013	0.01
Acetochlor	H	189				0.0012 - 0.0013	0.05
Aclonifen	H	189				0.0012 - 0.0013	NT
Alachlor	H	189				0.0026 ^	NT
Aldicarb	I	189				0.005 ^	NT
Aldicarb sulfone	IM	189				0.0026 ^	NT
Aldicarb sulfoxide	IM	189				0.0026 ^	NT
Ametoctradin	F	189				0.0012 - 0.0013	NT
Ametryn	H	189				0.0012 - 0.0013	NT
Amicarbazone	H	189				0.005 ^	NT
Anilofos	H	189				0.0012 - 0.0013	NT
Asulam	H	189				0.0012 - 0.0013	NT
Atraton	H	189				0.0012 - 0.0013	NT
Atrazine	H	189				0.0012 - 0.0013	NT
Azinphos ethyl	I	189				0.005 ^	NT
Azinphos methyl	I	189				0.005 ^	NT
Azinphos methyl oxygen analog	IM	189				0.0026 ^	NT
Azoxystrobin	F	189	32	16.9	0.0013 - 0.0095	0.0012 - 0.0013	5.0
Beflubutamid	H	189				0.0012 - 0.0013	NT
Benalaxyl	F	189				0.005 ^	NT
Bendiocarb	I	189				0.0012 - 0.0013	NT
Benfluralin	H	189				0.0012 - 0.0013	NT
Benoxacor	S	189				0.0026 ^	0.01
Bensulfuron methyl	H	189				0.0012 - 0.0013	0.02
Bensulide	H	189				0.0012 - 0.0013	NT
Benthiavalicarb isopropyl	F	189				0.0012 - 0.0013	NT
Benzobicyclon	H	189				0.0012 - 0.0013	0.01
Benzovindiflupyr	F	189				0.0012 - 0.0013	NT
Bifenazate	A	189				0.0026 ^	NT
Bifenox	H	189				0.0012 - 0.0013	NT
Bifenthrin	I	189	1	0.5	0.0021 ^	0.0012 - 0.0013	0.05
Bioallethrin	I	189				0.010 ^	NT
Bitertanol	F	189				0.010 ^	NT
Boscalid	F	189				0.0026 ^	0.20
Bromacil	H	188				0.0026 ^	NT
Bromophos ethyl	I	189				0.0012 - 0.0013	NT
Bromopropylate	A	189				0.0012 - 0.0013	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
Bromuconazole	F	189				0.0012 - 0.0013	NT
Bupirimate	F	189				0.0012 - 0.0013	NT
Buprofezin	I	189	7	3.7	0.011 - 0.038	0.0012 - 0.0013	1.5
Butachlor	H	189				0.0012 - 0.0013	NT
Butylate	H	189				0.005 ^	NT
Cadusafos	I	189				0.0012 - 0.0013	NT
Carbaryl	I	189				0.0026 ^	15
Carbendazim (MBC) (V-8)	F	189	8	4.2	0.0014 - 0.030	0.0012 - 0.0013	NT
Carbofuran	I	189				0.0012 - 0.0013	0.2
Carbophenothion	I	189				0.005 ^	NT
Carboxin	F	189				0.0026 ^	0.2
Carfentrazone ethyl	H	189				0.0026 ^	1.3
Chlorantraniliprole	I	189				0.005 ^	0.15
Chlordimeform	I	189				0.0012 - 0.0013	NT
Chlorethoxyfos	I	189				0.0026 ^	NT
Chlorfenapyr	I	189				0.005 ^	0.01
Chlorfenvinphos total	I	189				0.0012 - 0.0013	NT
Chlorimuron ethyl	H	189				0.0026 ^	NT
Chlorobenzilate	A	189				0.0012 - 0.0013	NT
Chloroneb	F	189				0.0012 - 0.0013	NT
Chlorpropham (V-1)	H	189	1	0.5	0.003 ^	0.0012 - 0.0013	NT
Chlorpyrifos	I	189	4	2.1	0.0059 - 0.014	0.0026 ^	0.1
Chlorpyrifos methyl	I	189	5	2.6	0.0021 - 0.017	0.0012 - 0.0013	30
Chlorpyrifos methyl O-analog	IM	189				0.0026 ^	30
Chlorpyrifos oxygen analog	IM	189				0.0026 ^	0.1
Chlorsulfuron	H	189				0.0012 - 0.0013	NT
Chlorthiophos	I	189				0.0012 - 0.0013	NT
Clethodim	H	189				0.010 ^	NT
Clodinafop propargyl	H	189				0.0012 - 0.0013	NT
Clofentezine	I	189				0.005 ^	NT
Clomazone	H	189				0.0012 - 0.0013	0.02
Cloquintocet-mexyl	S	189				0.0012 - 0.0013	NT
Cloransulam methyl	H	189				0.0012 - 0.0013	NT
Clothianidin	I	189	6	3.2	0.0022 - 0.014	0.0012 - 0.0013	0.02
Coumaphos	I	189				0.0012 - 0.0013	NT
Coumaphos oxygen analog	IM	189				0.0012 - 0.0013	NT
Crotoxyphos	I	189				0.0026 ^	NT
Crufomate	I	189				0.0026 ^	NT
Cyanazine	H	189				0.0012 - 0.0013	NT
Cyantraniliprole	I	189				0.0026 ^	0.02
Cyazofamid	F	189				0.010 ^	NT
Cyflufenamid	F	189				0.0012 - 0.0013	NT
Cyflumetofen	A	189				0.0026 ^	NT
Cyfluthrin	I	189	2	1.1	0.003 - 0.0035	0.0026 ^	0.05
Cyhalothrin, Total ¹	I	189	1	0.5	0.0026 ^	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
Cymoxanil	F	189				0.010 ^	NT
Cypermethrin	I	189				0.010 ^	1.5
Cyphenothrin	I	189				0.010 ^	NT
Cyproconazole	F	189				0.0026 ^	NT
Cyprodinil	F	189				0.0026 ^	NT
Cyprosulfamide	S	189				0.0026 ^	NT
Cyromazine	R	189				0.005 ^	NT
DCPA	H	189				0.0012 - 0.0013	NT
DEF (Tribufos)	H	189				0.0012 - 0.0013	NT
Deltamethrin ²	I	189	22	11.6	0.0014 - 0.038	0.0012 - 0.0013	1.0
Demeton-O	IM	189				0.0012 - 0.0013	NT
Demeton-S	IM	189				0.0026 ^	NT
Demeton-S sulfone	IM	189				0.0012 - 0.0013	NT
Desethyl atrazine	HM	189				0.0026 ^	NT
Desmetryn	H	189				0.0012 - 0.0013	NT
Dialifos	I	189				0.005 ^	NT
Diazinon	I	189				0.0012 - 0.0013	NT
Diazinon oxygen analog	IM	189				0.0012 - 0.0013	NT
Dichlobenil	H	189				0.0012 - 0.0013	NT
Dichlofenthion	I	189				0.0012 - 0.0013	NT
Dichlormid	H	189				0.020 ^	NT
Dichlorvos (DDVP)	I	189				0.020 ^	0.5
Diclofop methyl	H	189				0.0012 - 0.0013	NT
Dicloran	F	189				0.0012 - 0.0013	NT
Diclosulam	H	189				0.0026 ^	NT
Dicofol Total	I	189				0.0026 ^	NT
Dicrotophos	I	189				0.0012 - 0.0013	NT
Diethofencarb	F	189				0.0026 ^	NT
Difenoconazole	F	189	5	2.6	0.0013 - 0.0017	0.0012 - 0.0013	7.0
Diflubenzuron	I	189				0.0012 - 0.0013	0.02
Dimepiperate	H	189				0.0026 ^	NT
Dimethenamid	H	189				0.0012 - 0.0013	NT
Dimethipin	P	189				0.020 ^	NT
Dimethoate	I	189				0.0012 - 0.0013	NT
Dimethomorph	F	189				0.0026 ^	NT
Diniconazole	F	189				0.0012 - 0.0013	NT
Dinotefuran	I	189	15	7.9	0.0037 - 0.034	0.0026 ^	9.0
Dioxacarb	I	189				0.0012 - 0.0013	NT
Dioxathion	I	189				0.005 ^	NT
Diphenamid	H	189				0.0012 - 0.0013	NT
Diphenylamine (DPA) (V-2)	F	189	2	1.1	0.0013 - 0.0016	0.0012 - 0.0013	NT
Dipropetryn	H	189				0.0012 - 0.0013	NT
Disulfoton	I	189				0.0026 ^	NT
Disulfoton sulfone	IM	189				0.0012 - 0.0013	NT
Disulfoton sulfoxide	IM	189				0.0012 - 0.0013	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
Diuron	H	189				0.010 ^	NT
DMST (4-dimethylaminosulphotosluidide)	FM	189				0.0026 ^	NT
Dodine	F	189				0.010 ^	NT
Emamectin	I	189				0.010 ^	NT
Endosulfan I	IM	189				0.0026 ^	NT
Endosulfan II	IM	189				0.0026 ^	NT
Endosulfan sulfate	IM	189				0.0026 ^	NT
EPN	I	189				0.005 ^	NT
Epoxiconazole	F	189				0.0012 - 0.0013	NT
Esfenvalerate	I	189				0.005 ^	0.05
Ethaboxam	F	189				0.0012 - 0.0013	NT
Ethalfuralin	H	189				0.0026 ^	NT
Ethametsulfuron methyl	H	189				0.0012 - 0.0013	NT
Ethiofencarb	I	189				0.0026 ^	NT
Ethiofencarb sulfone	IM	189				0.0026 ^	NT
Ethiofencarb sulfoxide	IM	189				0.0012 - 0.0013	NT
Ethion	I	189				0.0012 - 0.0013	NT
Ethiprole	I	189				0.005 ^	1.7
Ethofumesate	H	189				0.0026 ^	NT
Ethoprop	I	189				0.0012 - 0.0013	NT
Ethylan	I	189				0.0012 - 0.0013	NT
Etofenprox	I	189				0.0012 - 0.0013	5.0
Etoxazole	A	189				0.0012 - 0.0013	NT
Etridiazole	F	189				0.005 ^	NT
Etrimfos	I	189				0.0012 - 0.0013	NT
Famoxadone	F	189				0.010 ^	NT
Famphur	I	189				0.0012 - 0.0013	NT
Fenamidone	F	189				0.0012 - 0.0013	NT
Fenamiphos	I	189				0.0012 - 0.0013	NT
Fenamiphos sulfone	IM	189				0.0012 - 0.0013	NT
Fenamiphos sulfoxide	IM	189				0.0026 ^	NT
Fenarimol	F	189				0.0012 - 0.0013	NT
Fenazaquin	I	189				0.0012 - 0.0013	NT
Fenbuconazole	F	189				0.0012 - 0.0013	NT
Fenchlorphos	I	189				0.0012 - 0.0013	NT
Fenhexamid	F	189				0.010 ^	NT
Fenitrothion	I	189				0.0012 - 0.0013	NT
Fenobucarb (BPMC) (V-2)	I	189	2	1.1	0.0031 - 0.0047	0.0026 ^	NT
Fenoxaprop ethyl	H	189				0.0012 - 0.0013	0.05
Fenoxycarb	I	189				0.0012 - 0.0013	NT
Fenpropathrin	I	189				0.0012 - 0.0013	NT
Fenpropimorph	F	189				0.0012 - 0.0013	NT
Fenpyrazamine	F	189				0.005 ^	NT
Fenpyroximate	A	189				0.0012 - 0.0013	NT
Fensulfthion	I	189				0.0012 - 0.0013	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
Fenthion	I	189				0.0012 - 0.0013	NT
Fenthion sulfone	IM	189				0.005 ^	NT
Fenthion sulfoxide	IM	189				0.010 ^	NT
Fenuron	H	189				0.005 ^	NT
Fipronil	I	189				0.0012 - 0.0013	0.04
Fipronil sulfone (MB46136)	IM	189				0.0012 - 0.0013	0.04
Flazasulfuron	H	189				0.005 ^	NT
Flonicamid	I	189				0.010 ^	NT
Florpyrauxifen-Benzyl	H	189				0.020 ^	NT
Fluazifop butyl	H	189				0.0012 - 0.0013	NT
Flubendiamide	I	189				0.0012 - 0.0013	0.50
Flucythrinate	I	189				0.0012 - 0.0013	NT
Fludioxonil	F	189				0.010 ^	0.02
Flufenacet	H	189				0.0012 - 0.0013	NT
Flufenoxuron	I	189				0.0012 - 0.0013	NT
Flufenpyr ethyl	H	189				0.0012 - 0.0013	NT
Flumetsulam	H	189				0.0026 ^	NT
Flumiclorac pentyl	H	189				0.0012 - 0.0013	NT
Flumioxazin	H	189				0.0012 - 0.0013	NT
Fluometuron	H	189				0.0026 ^	0.5
Fluopicolide	F	189				0.0012 - 0.0013	NT
Fluopyram (V-1)	F	189	1	0.5	0.0019 ^	0.0012 - 0.0013	NT
Fluorodifen	H	189				0.0012 - 0.0013	NT
Fluoxastrobin	F	189				0.0012 - 0.0013	4.0
Flupyradifurone	I	189				0.0012 - 0.0013	NT
Fluquinconazole	F	189				0.0012 - 0.0013	NT
Fluridone	H	189				0.0012 - 0.0013	0.1
Flusilazole	F	189				0.0012 - 0.0013	NT
Fluthiacet methyl	H	189				0.0026 ^	NT
Flutolanil	F	189				0.0012 - 0.0013	7.0
Flutriafol (V-1)	F	189	1	0.5	0.0013 ^	0.0012 - 0.0013	NT
Fluvalinate	I	189				0.0012 - 0.0013	NT
Fluxapyroxad	F	189	1	0.5	0.002 ^	0.0012 - 0.0013	5.0
Fonofos	I	189				0.0012 - 0.0013	NT
Forchlorfenuron	P	189				0.0012 - 0.0013	NT
Formetanate hydrochloride	I	189				0.0012 - 0.0013	NT
Fosthiazate	T	189				0.0012 - 0.0013	NT
Furalaxyl	F	189				0.005 ^	NT
Halosulfuron methyl	H	189				0.0012 - 0.0013	0.05
Heptenophos	I	189				0.0012 - 0.0013	NT
Hexaconazole (V-1)	F	189	1	0.5	0.0051 ^	0.005 ^	NT
Hexazinone	H	189				0.0012 - 0.0013	NT
Hexythiazox	I	189				0.0012 - 0.0013	NT
Hydroprene	R	189				0.0026 ^	0.2
Imazalil	F	189				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
Imazosulfuron	H	189				0.0026 ^	0.02
Imidacloprid	I	189	7	3.7	0.0027 - 0.027	0.0026 ^	0.05
Imiprothrin	I	189				0.010 ^	NT
Indaziflam	H	189				0.0012 - 0.0013	NT
Indoxacarb	I	189				0.005 ^	NT
Ipconazole	F	189				0.0026 ^	NT
Iprobenfos (IBP) (V-1)	F	189	1	0.5	0.0014 ^	0.0012 - 0.0013	NT
Iprodione	F	189				0.005 ^	10.0
Iprovalicarb	F	189				0.0026 ^	NT
Isocarbophos	I	189				0.0026 ^	NT
Isofenphos	I	189				0.0026 ^	NT
Isofenphos methyl	IM	189				0.0012 - 0.0013	NT
Isoprocarb	I	189				0.005 ^	NT
Isoprothiolane (V-11)	F	189	11	5.8	0.0015 - 0.19	0.0012 - 0.0013	NT
Isoproturon	H	189				0.0026 ^	NT
Isopyrazam	F	189				0.0012 - 0.0013	NT
Isoxadifen ethyl	S	189				0.0012 - 0.0013	0.10
Kresoxim-methyl	F	189				0.005 ^	NT
Lactofen	H	189				0.0026 ^	NT
Leptophos oxygen analog	IM	189				0.0026 ^	NT
Linuron	H	189				0.0026 ^	NT
Malathion	I	189	7	3.7	0.0028 - 0.11	0.0026 ^	8
Malathion oxygen analog	IM	189				0.0012 - 0.0013	8
Mandipropamid	F	189				0.0026 ^	NT
Mecarbam	I	189				0.005 ^	NT
Mefenpyr diethyl	S	189				0.0026 ^	NT
Mepanipyrim	F	189				0.0026 ^	NT
Mephosfolan	I	189				0.0012 - 0.0013	NT
Mesotrione	H	189				0.020 ^	NT
Metaflumizone	I	189				0.010 ^	NT
Metalaxyl/Mefenoxam ³	F	189				0.0012 - 0.0013	0.1
Metconazole	F	189				0.0026 ^	NT
Methacrifos	I	189				0.0012 - 0.0013	NT
Methamidophos	I	189	3	1.6	0.0013 - 0.011	0.0012 - 0.0013	0.02
Methidathion	I	189				0.0026 ^	NT
Methiocarb	I	189				0.0012 - 0.0013	NT
Methiocarb sulfone	IM	189				0.0026 ^	NT
Methiocarb sulfoxide	IM	189				0.0012 - 0.0013	NT
Methomyl	I	189				0.010 ^	NT
Methoxychlor p,p' (V-2)	IM	189	2	1.1	0.0013 - 0.0014	0.0012 - 0.0013	NT
Methoxyfenozide	I	189				0.0026 ^	0.50
Metolachlor	H	189				0.0012 - 0.0013	0.10
Metolcarb	I	189				0.010 ^	NT
Metrafenone	F	189				0.0012 - 0.0013	NT
Metribuzin	H	189				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
Metsulfuron methyl	H	189				0.0012 - 0.0013	NT
Mevinphos Total	I	189				0.0026 ^	NT
MGK-264	I	189	30	15.9	0.0015 - 0.12	0.0012 - 0.0013	5
Molinate	H	189				0.0012 - 0.0013	NT
Monocrotophos	I	189				0.0026 ^	NT
Monolinuron	H	189				0.0012 - 0.0013	NT
Monuron	H	189				0.0012 - 0.0013	NT
Myclobutanil	F	189				0.0026 ^	0.03
Napropamide	H	189				0.0026 ^	NT
Neburon	H	189				0.0012 - 0.0013	NT
Nicosulfuron	H	189				0.0012 - 0.0013	NT
Nitrapyrin	N	189				0.0012 - 0.0013	NT
Nitrofen	H	189				0.0012 - 0.0013	NT
Norflurazon	H	189				0.0026 ^	NT
Norflurazon desmethyl	HM	189				0.0026 ^	NT
Novaluron	I	189				0.005 ^	0.01
Omethoate	IM	189				0.0012 - 0.0013	NT
Orthosulfamuron	H	189				0.010 ^	0.05
Oxadiazon	H	189				0.0012 - 0.0013	NT
Oxadixyl	F	189				0.0026 ^	NT
Oxamyl	I	189				0.005 ^	NT
Oxamyl oxime	IM	189				0.005 ^	NT
Oxathiapiprolin	F	189				0.0012 - 0.0013	0.10
Oxydemeton methyl	I	189				0.0012 - 0.0013	NT
Oxydemeton methyl sulfone	IM	189				0.0012 - 0.0013	NT
Oxyfluorfen	H	189				0.0012 - 0.0013	NT
Paclobutrazol	P	189				0.0012 - 0.0013	NT
Parathion ethyl	I	189				0.0012 - 0.0013	NT
Parathion methyl	I	189				0.0012 - 0.0013	NT
Parathion methyl oxygen analog	IM	189				0.040 ^	NT
Parathion oxygen analog	IM	189				0.0026 ^	NT
Penconazole	F	189				0.0012 - 0.0013	NT
Pencycuron	F	189				0.0026 ^	NT
Pendimethalin	H	189				0.0026 ^	0.1
Penflufen	F	189				0.0012 - 0.0013	0.01
Penoxsulam	H	189				0.0012 - 0.0013	0.02
Pentachloroaniline (PCA)	FM	189				0.0012 - 0.0013	NT
Pentachlorobenzene (PCB)	FM	189				0.0012 - 0.0013	NT
(PCPMS)	FM	189				0.0026 ^	NT
Penthiopyrad	F	189				0.0012 - 0.0013	NT
Permethrin Total	I	189				0.005 ^	NT
Phenothrin	I	189				0.005 ^	0.01
Phenthoate	I	189				0.0012 - 0.0013	NT
Phorate	I	189				0.005 ^	NT
Phorate oxygen analog	IM	189				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
Phorate oxygen analog sulfone	IM	189				0.0012 - 0.0013	NT
Phorate oxygen analog sulfoxide	IM	189				0.0012 - 0.0013	NT
Phorate sulfone	IM	189				0.0026 ^	NT
Phorate sulfoxide (V-2)	IM	189	2	1.1	0.0014 - 0.0034	0.0012 - 0.0013	NT
Phosalone	I	189				0.0026 ^	NT
Phosmet	I	189				0.0012 - 0.0013	NT
Phosmet oxygen analog	IM	189				0.0012 - 0.0013	NT
Phosphamidon	I	189				0.005 ^	NT
Phoxim	I	189				0.0012 - 0.0013	NT
Picoxystrobin	F	189				0.005 ^	NT
Pinoxaden	H	189				0.020 ^	NT
Piperonyl butoxide	I	189	47	24.9	0.0026 - 0.49	0.0026 ^	20
Pirimicarb	I	189				0.0012 - 0.0013	NT
Pirimicarb desmethyl	IM	189				0.0012 - 0.0013	NT
Pirimiphos methyl	I	189				0.0012 - 0.0013	NT
Pirimiphos-ethyl	I	189				0.0012 - 0.0013	NT
Prallethrin	I	189				0.020 ^	1.0
Pretilachlor	H	189				0.0012 - 0.0013	NT
Primisulfuron methyl	H	189				0.0012 - 0.0013	NT
Prochloraz	F	189				0.005 ^	NT
Procymidone	F	189				0.0012 - 0.0013	NT
Profenofos (V-1)	I	189	1	0.5	0.002 ^	0.0012 - 0.0013	NT
Profluralin	H	189				0.005 ^	NT
Profoxydim	H	189				0.0026 ^	NT
Promecarb	I	189				0.0012 - 0.0013	NT
Prometryn	H	189				0.0012 - 0.0013	NT
Pronamide	H	189				0.0012 - 0.0013	NT
Propachlor	H	189				0.0012 - 0.0013	NT
Propamocarb	F	189				0.0012 - 0.0013	NT
Propanil	H	189				0.0012 - 0.0013	10
Propaquizafop	H	189				0.0012 - 0.0013	NT
Propargite	I	189				0.0012 - 0.0013	NT
Propazine	H	189				0.0012 - 0.0013	NT
Propetamphos	I	189				0.005 ^	NT
Propham	H	189				0.0012 - 0.0013	NT
Propiconazole	F	189	82	43.4	0.0013 - 0.031	0.0012 - 0.0013	7.0
Propoxycarbazone	H	189				0.010 ^	NT
Proquinazid	F	189				0.005 ^	NT
Prosulfuron	H	189				0.0026 ^	0.01
Prothiofos	I	189				0.0012 - 0.0013	NT
Pymetrozine	I	189				0.0012 - 0.0013	NT
Pyraclofos	I	189				0.0012 - 0.0013	NT
Pyraclostrobin	F	189				0.0012 - 0.0013	NT
Pyraflufen ethyl	H	189				0.0012 - 0.0013	NT
Pyrazon	H	189				0.0012 - 0.0013	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
Pyrazophos	F	189				0.0012 - 0.0013	NT
Pyridaben	I	189				0.0012 - 0.0013	NT
Pyridalyl	I	189				0.0026 ^	NT
Pyridaphenthion	I	189				0.0012 - 0.0013	NT
Pyridate	H	189				0.0012 - 0.0013	NT
Pyrimethanil	F	189				0.005 ^	NT
Pyriproxyfen	I	189				0.0012 - 0.0013	1.1
Pyroxasulfone	H	189				0.0012 - 0.0013	NT
Pyroxsulam	H	189				0.0012 - 0.0013	NT
Quinalphos	I	189				0.0012 - 0.0013	NT
Quinoxifen	F	189				0.0012 - 0.0013	NT
Quintozene (PCNB)	F	189				0.0012 - 0.0013	NT
Quinalofop ethyl	H	189				0.0012 - 0.0013	0.05
Resmethrin	I	189				0.0026 ^	3.0
Rimsulfuron	H	189				0.0026 ^	NT
Rotenone	I	189				0.0026 ^	EX
Saflufenacil	H	189				0.0026 ^	0.03
Sedaxane	F	189				0.005 ^	0.01
Sethoxydim	H	189				0.0026 ^	NT
Siduron	H	189				0.0012 - 0.0013	NT
Simazine	H	189				0.0012 - 0.0013	NT
Spinetoram	I	189				0.010 ^	NT
Spinosad	I	189				0.0026 ^	1.5
Spirodiclofen	A	189				0.0026 ^	NT
Spiromesifen	I	189				0.0026 ^	NT
Spiromesifen alcohol	IM	189				0.0012 - 0.0013	NT
Spirotetramat	I	189				0.0012 - 0.0013	NT
Spiroxamine	F	189				0.0012 - 0.0013	NT
Sulfallate	H	189				0.0012 - 0.0013	NT
Sulfentrazone	H	189				0.0026 ^	0.15
Sulfometuron methyl	H	189				0.010 ^	NT
Sulfosulfuron	H	189				0.0012 - 0.0013	NT
Sulfoxaflor	I	189				0.0026 ^	NT
Sulprofos	I	189				0.0026 ^	NT
TCMTB	F	189				0.005 ^	0.1
Tebuconazole (V-14)	F	189	14	7.4	0.0026 - 0.035	0.0026 ^	NT
Tebufenozide	I	189				0.005 ^	NT
Tebufenpyrad	I	189				0.0012 - 0.0013	NT
Tebupirimfos	I	189				0.0012 - 0.0013	NT
Tebuthiuron	H	189				0.0012 - 0.0013	NT
Tecnazene	P	189				0.0012 - 0.0013	NT
Teflubenzuron	I	189				0.005 ^	NT
Tefluthrin	I	189				0.0012 - 0.0013	NT
Tepraloxydim	H	189				0.010 ^	NT
Terbacil	H	189				0.0012 - 0.0013	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
Terbufos	I	189				0.0012 - 0.0013	NT
Terbufos oxygen analog sulfone	IM	189				0.010 ^	NT
Terbufos sulfone	IM	189				0.005 ^	NT
Terbufos sulfoxide	IM	189				0.0026 ^	NT
Terbutylazine	H	189				0.0012 - 0.0013	NT
Terbutryn	H	189				0.0012 - 0.0013	NT
Tetrachlorvinphos	I	189				0.0012 - 0.0013	NT
Tetraconazole	F	189				0.0012 - 0.0013	NT
Tetradifon	I	189				0.0026 ^	NT
Tetrahydrophthalimide (THPI)	FM	189	1	0.5	0.0088 ^	0.005 ^	0.05
Tetramethrin	I	189				0.005 ^	NT
Thiabendazole	F	189				0.0012 - 0.0013	NT
Thiacloprid (V-1)	I	189	1	0.5	0.002 ^	0.0012 - 0.0013	NT
Thiamethoxam (X-1)	I	189	8	4.2	0.0017 - 0.096	0.0012 - 0.0013	0.02
Thiazopyr	H	189				0.0026 ^	NT
Thidiazuron	P	189				0.005 ^	NT
Thiencarbazone methyl	H	189				0.0026 ^	NT
Thifensulfuron methyl	H	189				0.0012 - 0.0013	0.05
Thiobencarb	H	189				0.0026 ^	0.2
Thionazin	I	189				0.0026 ^	NT
Tolclofos methyl	F	189				0.0026 ^	NT
Tolfenpyrad	I	189				0.0026 ^	NT
Tri Allate	H	189				0.0012 - 0.0013	NT
Triadimefon	F	189				0.0026 ^	NT
Triadimenol	F	189				0.020 ^	NT
Triasulfuron	H	189				0.0012 - 0.0013	NT
Triazophos (V-6)	I	189	6	3.2	0.0017 - 0.013	0.0012 - 0.0013	NT
Tribenuron methyl	H	189				0.0012 - 0.0013	0.05
Trichlorfon	I	189				0.0026 ^	NT
Trichloronate	I	189				0.0012 - 0.0013	NT
Tricyclazole	F	189	10	5.3	0.002 - 0.36	0.0012 - 0.0013	3.0
Trifloxystrobin	F	189				0.0012 - 0.0013	3.5
Trifloxysulfuron	H	189				0.0012 - 0.0013	NT
Triflumezopyrim	I	189				0.0012 - 0.0013	0.40
Triflumizole	F	189				0.0026 ^	NT
Trifluralin	H	189				0.0026 ^	NT
Triticonazole	F	189				0.0026 ^	NT
Uniconazole	P	189				0.0012 - 0.0013	NT
Vernolate	H	189				0.010 ^	NT
Vinclozolin	F	189				0.0026 ^	NT
Zoxamide	F	189				0.0012 - 0.0013	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
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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 2018 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 when applied to growing crops, in accordance with good agricultural practice.
- (V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.
Refer to pages 4 through 7 in Appendix K to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.
- (X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences.
Refer to pages 1 through 3 in Appendix K to see the sample origin (domestic, imported, or unknown) for each occurrence
- 1 = Includes cyhalothrin lambda plus R157836 epimer.
- 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.

Pesticide Types:

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

Appendix D

Distribution of Residues by Pesticide in Wheat Flour

Appendix D shows residue detections for all compounds tested in wheat flour, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and appendices apply to 2018 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 2018, the Pesticide Data Program (PDP) analyzed 758 wheat flour samples. PDP detected 21 different residues (including metabolites), representing 19 pesticides, in the wheat flour samples. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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

Results for environmental contaminants across all commodities, including wheat flour, 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 WHEAT FLOUR

Pesticide	Pest. Type	Number of Samples	Samples with Detections	%		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
				with Detects				
2,4-dimethylphenyl formamide (2,4-DMPF)	I	758					0.003 ^	NT
2,6-DIPN	P	758					0.005 ^	NT
3-Hydroxycarbofuran	IM	758					0.001 ^	NT
5-Hydroxythiabendazole	FM	758					0.001 ^	0.05
Abamectin	I	758					0.020 ^	0.01
Acephate	I	758					0.005 ^	0.02
Acetamiprid	I	758					0.001 ^	0.01
Acetochlor	H	758					0.001 ^	0.02
Aclonifen	H	758					0.001 ^	NT
Alachlor	H	758					0.003 ^	0.05
Aldicarb	I	758					0.005 ^	NT
Aldicarb sulfone	IM	758					0.003 ^	NT
Aldicarb sulfoxide	IM	758					0.003 ^	NT
Ametoctradin	F	758					0.001 ^	NT
Ametryn	H	758					0.001 ^	NT
Amicarbazone	H	758					0.005 ^	0.15
Anilofos	H	758					0.001 ^	NT
Asulam	H	758					0.001 ^	NT
Atraton	H	758					0.001 ^	NT
Atrazine	H	758					0.001 ^	0.10
Azinphos ethyl	I	758					0.005 ^	NT
Azinphos methyl	I	758					0.005 ^	NT
Azinphos methyl oxygen analog	IM	758					0.003 ^	NT
Azoxystrobin	F	758					0.001 ^	0.2
Beflubutamid	H	758					0.001 ^	NT
Benalaxyl	F	758					0.005 ^	NT
Bendiocarb	I	758					0.001 ^	NT
Benfluralin	H	758					0.001 ^	NT
Benoxacor	S	758					0.003 ^	0.01
Bensulide	H	758					0.001 ^	NT
Bifenazate	A	758					0.003 ^	NT
Bifenox	H	758					0.001 ^	NT
Bifenthrin	I	758	19	2.5	0.001 - 0.005		0.001 ^	0.05
Bioallethrin	I	758					0.010 ^	NT
Bitertanol	F	758					0.010 ^	NT
Boscalid	F	758					0.003 ^	0.20
Bromacil	H	474					0.003 ^	NT
Bromophos ethyl	I	758					0.001 ^	NT
Bromopropylate	A	758					0.001 ^	NT
Bromuconazole	F	758					0.001 ^	NT
Bupirimate	F	758					0.001 ^	NT
Buprofezin	I	758					0.001 ^	NT
Butachlor	H	758					0.001 ^	NT
Butylate	H	758					0.005 ^	NT
Cadusafos	I	758					0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Carbaryl	I	758				0.003 ^	1.0
Carbendazim (MBC)	F	758				0.001 ^	0.1
Carbofuran	I	758				0.001 ^	NT
Carbophenothion	I	758				0.005 ^	NT
Carboxin	F	758				0.003 ^	0.2
Carfentrazone ethyl	H	758				0.003 ^	0.10
Chlorantraniliprole	I	758				0.005 ^	6.0
Chlordimeform	I	758				0.001 ^	NT
Chlorethoxyfos	I	758				0.003 ^	NT
Chlorfenapyr	I	758				0.005 ^	0.01
Chlorfenvinphos total	I	758				0.001 ^	NT
Chlorimuron ethyl	H	758				0.003 ^	NT
Chlorobenzilate	A	758				0.001 ^	NT
Chloroneb	F	758				0.001 ^	NT
Chlorpropham (V-6)	H	758	6	0.8	0.001 - 0.003	0.001 ^	NT
Chlorpyrifos	I	758	9	1.2	0.003 - 0.008	0.003 ^	0.5
Chlorpyrifos methyl	I	758	166	21.9	0.001 - 0.072	0.001 ^	6.0
Chlorpyrifos oxygen analog	IM	758				0.001 ^	0.5
Chlorsulfuron	H	758				0.003 ^	0.1
Chlorthiophos	I	758				0.001 ^	NT
Clethodim	H	727				0.010 ^	NT
Clofentezine	I	758				0.005 ^	NT
Clomazone	H	758				0.001 ^	NT
Cloransulam methyl	H	758				0.001 ^	NT
Clothianidin	I	758				0.001 ^	0.02
Coumaphos	I	758				0.001 ^	NT
Coumaphos oxygen analog	IM	758				0.001 ^	NT
Crotoxyphos	I	758				0.003 ^	NT
Crufomate	I	758				0.003 ^	NT
Cyantraniliprole	I	758				0.003 ^	NT
Cyazofamid	F	758				0.010 ^	NT
Cyflufenamid	F	758				0.001 ^	NT
Cyflumetofen	A	758				0.003 ^	NT
Cyfluthrin	I	758				0.003 ^	0.15
Cyhalothrin, Total ¹	I	758	12	1.6	0.003 - 0.021	0.003 ^	0.05
Cymoxanil	F	758				0.010 ^	NT
Cypermethrin	I	758				0.010 ^	0.2
Cyphenothrin	I	758				0.040 ^	NT
Cyproconazole	F	758				0.003 ^	0.05
Cyprodinil	F	758				0.003 ^	NT
Cyprosulfamide	S	758				0.003 ^	NT
Cyromazine	R	758				0.005 ^	NT
DCPA	H	758				0.001 ^	NT
DEF (Tribufos)	H	758				0.001 ^	NT
Deltamethrin ²	I	758	400	52.8	0.001 - 0.075	0.001 ^	1.0
Demeton-O	IM	758				0.001 ^	NT
Demeton-S	IM	758				0.003 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Demeton-S sulfone	IM	758				0.001 ^	NT
Desethyl atrazine	HM	758				0.003 ^	0.10
Desmetryn	H	758				0.001 ^	NT
Dialifos	I	758				0.005 ^	NT
Diazinon	I	758				0.001 ^	NT
Diazinon oxygen analog	IM	758				0.001 ^	NT
Dichlobenil	H	758				0.001 ^	NT
Dichlofenthion	I	758				0.001 ^	NT
Dichlormid	H	758				0.020 ^	0.05
Dichlorvos (DDVP)	I	758				0.020 ^	0.5
Dicloran	F	758				0.001 ^	NT
Diclosulam	H	758				0.003 ^	NT
Dicofol Total	I	758				0.003 ^	NT
Dicrotophos	I	758				0.001 ^	NT
Diethofencarb	F	758				0.003 ^	NT
Difenoconazole	F	758	1	0.1	0.002 ^	0.001 ^	0.1
Diflubenzuron	I	758				0.001 ^	0.06
Dimepiperate	H	758				0.003 ^	NT
Dimethenamid	H	758				0.001 ^	NT
Dimethoate	I	758				0.001 ^	0.04
Dimethomorph	F	758				0.003 ^	NT
Diniconazole	F	758				0.001 ^	NT
Dinotefuran	I	758				0.003 ^	0.01
Dioxacarb	I	758				0.001 ^	NT
Dioxathion	I	758				0.005 ^	NT
Diphenamid	H	758				0.001 ^	NT
Diphenylamine (DPA)	F	758				0.001 ^	NT
Dipropetryn	H	758				0.001 ^	NT
Disulfoton	I	758				0.003 ^	NT
Disulfoton sulfone	IM	758				0.001 ^	NT
Disulfoton sulfoxide	IM	758				0.001 ^	NT
Ditalimfos	F	728				0.005 ^	NT
Diuron	H	758				0.010 ^	0.5
DMST (4-dimethylaminosulphotosluidide)	FM	758				0.003 ^	NT
Dodine	F	758				0.010 ^	NT
Emamectin	I	758				0.010 ^	NT
Endosulfan I	IM	758				0.003 ^	NT
Endosulfan II	IM	758				0.003 ^	NT
Endosulfan sulfate	IM	758				0.003 ^	NT
EPN	I	758				0.005 ^	NT
Epoxiconazole	F	758				0.001 ^	NT
Esfenvalerate	I	758				0.005 ^	0.05
Ethalfuralin	H	758				0.003 ^	NT
Ethiofencarb	I	758				0.003 ^	NT
Ethiofencarb sulfone	IM	758				0.003 ^	NT
Ethiofencarb sulfoxide	IM	758				0.001 ^	NT
Ethion	I	758				0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Ethion mono oxon	IM	410				0.001 ^	NT
Ethiprole	I	758				0.005 ^	NT
Ethofumesate	H	758				0.003 ^	NT
Ethoprop	I	758				0.001 ^	NT
Ethylan	I	758				0.001 ^	NT
Etofenprox	I	758				0.001 ^	5.0
Etoxazole	A	758				0.001 ^	NT
Etridiazole	F	758				0.005 ^	NT
Etrimfos	I	758				0.001 ^	NT
Famoxadone	F	758				0.010 ^	NT
Famphur	I	758				0.001 ^	NT
Fenamidone	F	758				0.001 ^	0.1
Fenamiphos	I	758				0.001 ^	NT
Fenamiphos sulfone	IM	758				0.001 ^	NT
Fenamiphos sulfoxide	IM	758				0.003 ^	NT
Fenarimol	F	758				0.001 ^	NT
Fenazaquin	I	758				0.001 ^	NT
Fenbuconazole	F	758				0.001 ^	0.1
Fenchlorphos (Ronnel)	I	758				0.001 ^	NT
Fenhexamid	F	758				0.010 ^	NT
Fenitrothion	I	758				0.001 ^	3.0
Fenobucarb (BPMC)	I	758				0.003 ^	NT
Fenoxaprop ethyl	H	758				0.001 ^	0.05
Fenoxycarb	I	758				0.001 ^	NT
Fenpropathrin	I	758				0.001 ^	NT
Fenpropidin	F	758				0.040 ^	NT
Fenpropimorph	F	758				0.001 ^	NT
Fenpyrazamine	F	758				0.005 ^	NT
Fenpyroximate	A	758				0.001 ^	NT
Fensulfothion	I	758				0.001 ^	NT
Fenthion	I	758				0.001 ^	NT
Fenthion sulfone	IM	758				0.005 ^	NT
Fenthion sulfoxide	IM	729				0.020 - 0.040	NT
Fenuron	H	758				0.005 ^	NT
Fipronil	I	758				0.001 ^	0.005
Fipronil sulfone (MB46136)	IM	758				0.001 ^	0.005
Flazasulfuron	H	758				0.005 ^	NT
Flonicamid	I	758				0.010 ^	NT
Fluazifop butyl	H	758				0.001 ^	NT
Flubendiamide	I	758				0.001 ^	NT
Flucythrinate	I	758				0.001 ^	NT
Fludioxonil	F	758				0.010 ^	0.02
Flufenacet	H	758				0.001 ^	0.60
Flufenoxuron	I	758				0.001 ^	NT
Flufenpyr ethyl	H	758				0.001 ^	NT
Flumetsulam	H	758				0.003 ^	NT
Flumiclorac pentyl	H	758				0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Flumioxazin	H	758				0.001 ^	0.40
Fluometuron	H	758				0.003 ^	0.5
Fluopicolide	F	758				0.001 ^	0.02
Fluopyram	F	758	3	0.4	0.001 - 0.002	0.001 ^	4.0
Fluorodifen	H	661				0.001 ^	NT
Fluoxastrobin	F	758				0.001 ^	0.15
Flupyradifurone	I	758				0.001 ^	3.0
Fluquinconazole	F	758				0.001 ^	NT
Fluridone	H	758				0.001 ^	0.1
Flusilazole	F	758				0.001 ^	NT
Fluthiacet methyl	H	758				0.003 ^	NT
Flutolanil	F	758				0.001 ^	0.05
Flutriafol	F	758				0.001 ^	0.15
Fluvalinate	I	758				0.001 ^	NT
Fluxapyroxad	F	758				0.001 ^	0.3
Fonofos	I	758				0.001 ^	NT
Forchlorfenuron	P	758				0.001 ^	NT
Formetanate hydrochloride	I	758				0.001 ^	NT
Fosthiazate	T	758				0.001 ^	NT
Furalaxyl	F	758				0.005 ^	NT
Halosulfuron methyl	H	758				0.001 ^	NT
Heptenophos	I	758				0.001 ^	NT
Hexaconazole	F	758				0.005 ^	NT
Hexazinone	H	600				0.001 - 0.005	NT
Hexythiazox	I	758				0.001 ^	0.02
Hydroprene	R	758				0.003 ^	0.2
Imazalil	F	758				0.003 ^	0.1
Imazosulfuron	H	758				0.003 ^	NT
Imidacloprid	I	758	4	0.5	0.003 - 0.006	0.003 ^	0.05
Imiprothrin	I	758				0.010 ^	NT
Indaziflam	H	758				0.001 ^	NT
Indoxacarb	I	758				0.005 ^	NT
Ipconazole	F	758				0.003 ^	0.01
Iprobenfos (IBP)	F	758				0.001 ^	NT
Iprodione	F	758				0.005 ^	NT
Iprovalicarb	F	758				0.003 ^	NT
Isocarbophos	I	758				0.003 ^	NT
Isofenphos	I	758				0.003 ^	NT
Isofenphos methyl	IM	758				0.001 ^	NT
Isoprocarb	I	758				0.005 ^	NT
Isoprothiolane	F	758				0.001 ^	NT
Isoproturon	H	758				0.003 ^	NT
Isoxadifen ethyl	S	758				0.001 ^	NT
Kresoxim-methyl	F	758				0.005 ^	NT
Lactofen	H	758				0.003 ^	NT
Leptophos oxygen analog	IM	758				0.003 ^	NT
Linuron	H	758				0.003 ^	0.05

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Malathion	I	758	186	24.5	0.003 - 0.081	0.003 ^	8
Malathion oxygen analog	IM	758	4	0.5	0.002 - 0.010	0.001 ^	8
Mandipropamid	F	758				0.003 ^	NT
Mecarbam	I	758				0.005 ^	NT
Mefenpyr diethyl	S	758				0.003 ^	0.05
Mepanipyrim	F	758				0.001 ^	NT
Mephosfolan	I	758				0.001 ^	NT
Metaflumizone	I	758				0.010 ^	NT
Metalaxyl/Mefenoxam ³	F	758				0.001 ^	1.0
Metconazole	F	758				0.003 ^	0.15
Methacrifos	I	758				0.001 ^	NT
Methamidophos	I	758				0.001 ^	0.02
Methidathion	I	758				0.003 ^	NT
Methiocarb	I	758				0.001 ^	NT
Methiocarb sulfone	IM	758				0.003 ^	NT
Methiocarb sulfoxide	IM	758				0.001 ^	NT
Methomyl	I	758				0.010 ^	1
Methoxychlor p,p' (V-2)	IM	758	2	0.3	0.002 ^	0.001 ^	NT
Methoxyfenozide	I	758				0.003 ^	NT
Metolachlor	H	758				0.001 ^	0.10
Metolcarb	I	758				0.010 ^	NT
Metrafenone	F	758				0.001 ^	NT
Metribuzin	H	758				0.005 ^	0.75
Metsulfuron methyl	H	758				0.001 ^	0.1
Mevinphos Total	I	758				0.003 ^	NT
MGK-264	I	758	18	2.4	0.001 - 0.015	0.001 ^	5
Molinate	H	758				0.001 ^	NT
Monocrotophos	I	758				0.003 ^	NT
Monolinuron	H	758				0.001 ^	NT
Myclobutanil	F	758				0.003 ^	0.03
Napropamide	H	694				0.003 ^	NT
Nitrapyrin	N	758				0.001 ^	0.5
Nitrofen	H	758				0.001 ^	NT
Norflurazon	H	758				0.003 ^	NT
Norflurazon desmethyl	HM	758				0.003 ^	NT
Novaluron	I	758				0.005 ^	0.01
Omethoate	IM	758				0.001 ^	0.04
Oxadiazon	H	758				0.001 ^	NT
Oxadixyl	F	758				0.003 ^	NT
Oxamyl	I	758				0.005 ^	NT
Oxamyl oxime	IM	758				0.005 ^	NT
Oxydemeton methyl	I	758				0.001 ^	NT
Oxydemeton methyl sulfone	IM	758				0.001 ^	NT
Oxyfluorfen	H	758				0.001 ^	NT
Paclobutrazol	P	758				0.001 ^	NT
Parathion ethyl	I	758				0.001 ^	NT
Parathion methyl	I	758				0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Parathion methyl oxygen analog	IM	758				0.010 ^	NT
Parathion oxygen analog	IM	758				0.003 ^	NT
Penconazole	F	758				0.001 ^	NT
Pencycuron	F	758				0.003 ^	NT
Pendimethalin	H	758				0.003 ^	0.10
Penflufen	F	758				0.001 ^	0.01
Penoxsulam	H	758				0.001 ^	NT
Pentachloroaniline (PCA)	FM	758				0.001 ^	NT
Pentachlorobenzene (PCB) (V-5)	FM	758	5	0.7	0.002 - 0.005	0.001 ^	NT
Pentachlorophenyl methyl sulfide (PCPMS)	FM	758				0.003 ^	NT
Penthiopyrad	F	758				0.001 ^	0.15
Permethrin Total	I	569				0.005 ^	NT
Permethrin cis (V-1)	IM	189	1	0.5	0.010 ^	0.003 ^	NT
Permethrin trans (V-1)	IM	189	1	0.5	0.029 ^	0.003 ^	NT
Phenothrin	I	726				0.005 ^	0.01
Phenthoate	I	758				0.001 ^	NT
Phorate	I	758				0.005 ^	0.05
Phorate oxygen analog	IM	758				0.005 ^	0.05
Phorate oxygen analog sulfone	IM	758				0.001 ^	0.05
Phorate oxygen analog sulfoxide	IM	758				0.001 ^	0.05
Phorate sulfone	IM	758				0.003 ^	0.05
Phorate sulfoxide	IM	758				0.001 ^	0.05
Phosalone	I	758				0.003 ^	NT
Phosmet	I	758				0.001 ^	NT
Phosmet oxygen analog	IM	758				0.001 ^	NT
Phosphamidon	I	758				0.005 ^	NT
Phoxim	I	758				0.001 ^	NT
Picoxystrobin	F	758				0.005 ^	0.04
Pinoxaden	H	758				0.020 ^	1.3
Piperonyl butoxide	I	758	231	30.5	0.003 - 0.96	0.003 ^	20
Pirimicarb	I	758				0.001 ^	NT
Pirimicarb desmethyl	IM	758				0.001 ^	NT
Pirimiphos ethyl	I	758				0.001 ^	NT
Pirimiphos methyl (V-3)	I	758	3	0.4	0.002 - 0.009	0.001 ^	NT
Prallethrin	I	758				0.020 ^	1.0
Pretilachlor	H	758				0.001 ^	NT
Primisulfuron methyl	H	758				0.001 ^	NT
Prochloraz	F	758				0.005 ^	NT
Procymidone	F	758				0.001 ^	NT
Profenofos	I	758				0.001 ^	NT
Profluralin	H	758				0.005 ^	NT
Profoxydim	H	727				0.003 ^	NT
Promecarb	I	758				0.001 ^	NT
Prometryn	H	758				0.001 ^	NT
Pronamide	H	758				0.001 ^	NT
Propachlor	H	758				0.001 ^	NT
Propamocarb	F	758				0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Propanil	H	726				0.001 ^	NT
Propaquizafop	H	758				0.001 ^	NT
Propargite	I	758				0.001 ^	NT
Propazine	H	758				0.001 ^	NT
Propetamphos	I	758				0.005 ^	NT
Propham	H	758				0.001 ^	NT
Propiconazole	F	758				0.001 ^	0.3
Proquinazid	F	758				0.005 ^	NT
Prosulfuron	H	758				0.003 ^	0.01
Prothiofos	I	695				0.001 ^	NT
Pymetrozine	I	758				0.001 ^	NT
Pyraclufos	I	758				0.001 ^	NT
Pyraclostrobin	F	758				0.001 ^	0.02
Pyraflufen ethyl	H	758				0.001 ^	0.01
Pyrazon	H	758				0.001 ^	NT
Pyrazophos	F	758				0.001 ^	NT
Pyridaben	I	758				0.001 ^	NT
Pyridalyl	I	758				0.003 ^	NT
Pyridaphenthion	I	758				0.001 ^	NT
Pyrimethanil	F	758				0.005 ^	NT
Pyriproxyfen	I	758	5	0.7	0.001 - 0.007	0.001 ^	1.1
Pyroxasulfone	H	758				0.001 ^	0.03
Quinalphos	I	758				0.001 ^	NT
Quinoxifen	F	758				0.001 ^	NT
Quintozene (PCNB)	F	758				0.001 ^	NT
Quizalofop ethyl	H	758				0.001 ^	0.05
Resmethrin	I	758				0.003 - 0.005	3.0
Rimsulfuron	H	727				0.003 ^	NT
Rotenone	I	758				0.003 ^	EX
Saflufenacil	H	758				0.003 ^	0.60
Sedaxane	F	758				0.005 ^	0.01
Sethoxydim	H	727				0.003 ^	NT
Simazine	H	758				0.001 ^	NT
Spinetoram	I	758				0.010 ^	0.04
Spinosad	I	758	3	0.4	0.004 - 0.033	0.003 ^	1.5
Spirodiclofen	A	758				0.003 ^	NT
Spiromesifen	I	758				0.003 ^	0.03
Spiromesifen alcohol	IM	758				0.001 ^	0.03
Spirotetramat	I	758				0.001 ^	NT
Spiroxamine	F	758				0.001 ^	NT
Sulfallate	H	758				0.001 ^	NT
Sulfentrazone	H	758				0.003 ^	0.15
Sulfometuron methyl	H	758				0.010 ^	NT
Sulfosulfuron	H	758				0.001 ^	0.02
Sulfoxaflor	I	758				0.003 ^	0.08
Sulprofos	I	758				0.003 ^	NT
TCMTB	F	758				0.005 ^	0.1

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tebuconazole	F	758				0.010 ^	0.15
Tebufenozide	I	758				0.005 ^	NT
Tebufenpyrad	I	758				0.001 ^	NT
Tebuthiuron	H	758				0.001 ^	NT
Tecnazene	P	758				0.001 ^	NT
Teflubenzuron	I	758				0.005 ^	NT
Tefluthrin	I	758				0.001 ^	NT
Tepraloxydim	H	758				0.010 ^	NT
Terbacil	H	664				0.001 ^	NT
Terbufos	I	758				0.001 ^	NT
Terbufos oxygen analog sulfone	IM	253				0.010 ^	NT
Terbufos sulfone	IM	758				0.005 ^	NT
Terbufos sulfoxide	IM	758				0.003 ^	NT
Terbutylazine	H	758				0.001 ^	NT
Terbutryn	H	535				0.001 ^	NT
Tetrachlorvinphos	I	758				0.001 ^	NT
Tetraconazole	F	758				0.001 ^	0.08
Tetradifon	I	758				0.003 ^	NT
Tetrahydrophthalimide (THPI)	FM	758				0.020 ^	0.05
Tetramethrin	I	758				0.005 ^	NT
Thiabendazole	F	758	1	0.1	0.004 ^	0.001 ^	0.05
Thiacloprid	I	758				0.001 ^	NT
Thiamethoxam	I	758				0.001 ^	0.02
Thiazopyr	H	758				0.003 ^	NT
Thidiazuron	P	758				0.005 ^	NT
Thifensulfuron methyl	H	758				0.001 ^	0.05
Thiobencarb	H	758				0.003 ^	NT
Thiodicarb	I	758				0.010 ^	NT
Thionazin	I	758				0.003 ^	NT
Tolclofos methyl	F	758				0.003 ^	NT
Tolfenpyrad	I	758				0.003 ^	NT
Tri Allate	H	758				0.001 ^	0.05
Triadimefon	F	758				0.003 ^	NT
Triadimenol	F	758				0.020 ^	0.05
Triasulfuron	H	758				0.001 ^	0.02
Triazophos	I	758				0.001 ^	NT
Tribenuron methyl	H	727				0.001 ^	0.05
Trichlorfon	I	758				0.003 ^	NT
Trichloronate	I	758				0.001 ^	NT
Tricyclazole	F	758				0.001 ^	NT
Trifloxystrobin	F	758				0.001 ^	0.05
Trifloxysulfuron	H	758				0.001 ^	NT
Triflumizole	F	758				0.003 ^	NT
Trifluralin	H	758				0.003 ^	0.05
Triticonazole	F	758				0.003 ^	0.01
Uniconazole	P	758				0.001 ^	NT
Vinclozolin	F	758				0.003 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Zoxamide	F	758				0.001 ^	NT

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2018 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 when applied to growing crops, in accordance with good agricultural practice.

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

Refer to pages 4 through 7 in Appendix K to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.

1 = Includes cyhalothrin lambda plus R157836 epimer.

2 = Includes parent Tralomethrin.

3 = Metalaxyl and mfenoxam 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

P = Plant Growth Regulator

R = Insect Growth Regulator

S = Herbicide Safener

T = Nematicide

Appendix E

Distribution of Residues by Pesticide in Heavy Cream

Appendix E shows residue detections for all compounds tested in heavy cream, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and appendices apply to 2018 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 2018, the Pesticide Data Program (PDP) analyzed 341 heavy cream samples. PDP detected six different residues (including metabolites), representing 6 pesticides, in the heavy cream samples.

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

Results for environmental contaminants across all commodities, including heavy cream, 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 HEAVY CREAM

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
2,4-D	H	341				0.10 ^	0.05
3-Hydroxycarbofuran	IM	341				0.035 ^	NT
5-Hydroxythiabenzazole	FM	341				0.50 ^	0.1
Acephate	I	341				0.010 ^	0.1
Acetamiprid	I	341				0.010 ^	0.30
Alachlor	H	341				0.050 ^	0.02
Amicarbazone	H	341				0.035 ^	0.01
Asulam	H	211				0.050 ^	0.05
Atrazine	H	341				0.005 ^	0.02
Avermectin	I	341				0.050 ^	0.015
Azinphos methyl	I	341				0.015 ^	NT
Azoxystrobin	F	341				0.002 ^	0.006
Bendiocarb	I	341				0.010 ^	NT
Benoxacor	S	222				0.10 ^	0.01
Bentazon	H	341				0.050 ^	0.02
Bifenazate	A	271				0.050 ^	0.02
Bifenthrin	I	341				0.010 ^	0.1
Boscalid	F	341				0.005 ^	0.10
Buprofezin	I	341				0.050 ^	0.01
Carbaryl	I	341				0.010 ^	1.0
Carbendazim (MBC)	F	341				0.030 ^	NT
Carbofuran	I	341				0.002 ^	NT
Carboxin	F	341				0.002 ^	0.05
Carfentrazone ethyl	H	341				0.005 ^	0.05
Chlorantraniliprole	I	341				0.010 ^	0.1
Chlorfenapyr	I	341				0.001 ^	0.01
Chlorothalonil	F	341				0.10 ^	0.1
Chlorpropham	H	341				0.010 ^	0.30
Chlorpyrifos	I	341				0.005 ^	0.1
Chlorpyrifos methyl	I	341				0.002 ^	0.05
Chlorpyrifos oxygen analog	IM	341				0.020 ^	0.1
Clofentezine	I	341				0.005 ^	0.01
Clopyralid (X-9)	H	341	198	58.1	0.077 - 0.40	0.077 ^	0.2
Clothianidin	I	341				0.025 ^	0.02
Coumaphos	I	341				0.002 ^	0.5 *
Coumaphos oxygen analog	IM	341				0.010 ^	0.5 *
Cyantraniliprole	I	341				0.010 ^	0.20
Cyclanilide	P	281				0.025 ^	0.04
Cyfluthrin	I	341				0.080 ^	0.2
Cyhalothrin, Lambda	I	341	188	55.1	0.001 - 0.060	0.001 ^	0.4
Cypermethrin	I	341				0.015 ^	0.10
Cyphenothrin	I	341				0.050 ^	NT
DEF (Tribufos)	H	281				0.015 ^	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
Deltamethrin ¹	I	341				0.035 ^	0.05
Dicamba	H	151				0.40 ^	0.2
Dichlorvos (DDVP)	I	341				0.010 ^	0.02
Dicofol p,p'	I	341				0.006 ^	0.75
Difenoconazole	F	341				0.010 ^	0.02
Diffubenzuron	I	341				0.020 ^	0.05
Dimethoate	I	341				0.010 ^	0.002
Dinotefuran	I	341				0.050 ^	0.05
Diphenylamine (DPA)	F	341				0.010 ^	0.01
Endosulfan I	IM	341				0.010 ^	2.0 *
Endosulfan II	IM	341				0.003 ^	2.0 *
Endosulfan sulfate	IM	341				0.003 ^	2.0 *
Epoxiconazole	F	341				0.010 ^	NT
Esfenvalerate+Fenvalerate Total	I	341				0.010 ^	0.3
Etofenprox	I	341				0.010 ^	0.60
Etoazole	A	341				0.005 ^	0.01 *
Famoxadone	F	341				0.050 ^	0.06 *
Fenamidone	F	341				0.050 ^	0.02
Fenoxaprop ethyl	H	341				0.005 ^	0.02
Fenpropathrin	I	341				0.005 ^	0.08
Fenpyroximate	A	341	1	0.3	0.011 ^	0.005 ^	0.015
Fipronil	I	341				0.040 ^	0.05
Fonicamid	I	341				0.020 ^	0.05
Fluazifop butyl	H	341				0.005 ^	0.05
Flucarbazone sodium	H	341				0.040 ^	0.005
Fludioxonil	F	341				0.010 ^	0.01
Flufenoxuron	I	341				0.005 ^	0.20
Fluometuron	H	341				0.005 ^	0.02
Fluopyram	F	341				0.003 ^	0.40
Fluoxastrobin	F	341				0.010 ^	0.03
Flupyradifurone	I	341				0.010 ^	0.15
Fluridone	H	341				0.005 ^	0.05
Flutolanil	F	341				0.020 ^	0.05
Fluvalinate	I	341				0.015 ^	NT
Fluxapyroxad	F	341				0.005 ^	0.01
Hexazinone	H	341				0.010 ^	11
Hexythiazox	I	341				0.010 ^	0.05
Imazalil	F	281				0.025 ^	0.02
Imidacloprid	I	341				0.010 ^	0.10
Imiprothrin	I	341				0.020 ^	NT
Indoxacarb	I	341	1	0.3	0.043 ^	0.010 ^	0.15
Iprodione	F	341				0.040 ^	0.5
Linuron	H	341				0.020 ^	0.05
Malathion	I	341				0.001 ^	0.5 *
Malathion oxygen analog	IM	341				0.005 ^	0.5 *
Metalaxyl/Mefenoxam ²	F	341				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
Methamidophos	I	341				0.010 ^	0.1
Methoxyfenozide	I	341				0.005 ^	0.10
Metolachlor	H	341				0.010 ^	0.02
Metribuzin	H	341				0.003 ^	0.05
Metsulfuron methyl	H	281				0.010 ^	0.05
MGK-264	I	341				0.010 ^	5
Myclobutanil	F	341				0.010 ^	0.2
Nicosulfuron	H	311				0.040 ^	0.01
Norflurazon	H	341				0.005 ^	0.1
Norflurazon desmethyl	HM	341				0.010 ^	0.1
Novaluron	I	341	17	5	0.005 - 0.052	0.005 ^	1.0
Omethoate	IM	341				0.040 ^	0.002
Oxydemeton methyl	I	341				0.020 ^	0.01
Oxydemeton methyl sulfone	IM	341				0.040 ^	0.01
Oxyfluorfen	H	341				0.005 ^	0.01
Pendimethalin	H	341				0.015 ^	0.04
Pentachloroaniline (PCA)	FM	341				0.015 ^	NT
Pentachlorobenzene (PCB)	FM	341				0.001 ^	NT
Penthiopyrad	F	341				0.003 ^	0.02
Permethrin Total	I	341				0.030 ^	0.88
Phosmet	I	341				0.001 ^	0.1
Phosmet oxygen analog	IM	341				0.003 ^	0.1
Picloram	H	341				0.022 ^	0.25
Picoxystrobin	F	341				0.005 ^	0.01
Pinoxaden	H	341				0.010 ^	0.02
Prallethrin	I	341				0.005 ^	1.0
Primisulfuron methyl	H	341				0.075 ^	0.02
Pronamide	H	341				0.010 ^	0.02
Propachlor	H	341				0.040 ^	0.02
Propanil	H	341				0.010 ^	0.05
Propargite	I	341	1	0.3	0.015 ^	0.006 ^	0.08
Propetamphos	I	341				0.010 ^	NT
Propiconazole	F	341				0.010 ^	0.05
Pyraclostrobin	F	341				0.010 ^	0.1
Pyrethrins	I	341				0.025 ^	1.0
Pyridaben	I	341				0.010 ^	0.01
Pyrimethanil	F	341				0.010 ^	0.05
Pyriproxyfen	I	341				0.010 ^	0.10
Quintozene (PCNB)	F	341				0.002 ^	NT
Saflufenacil	H	341				0.050 ^	0.01
Sethoxydim	H	341				0.006 ^	0.5
Simazine	H	341				0.020 ^	0.03
Spirodiclofen	A	341				0.004 ^	0.01
Spiromesifen	I	341				0.030 ^	0.01
Spirotetramat	I	341				0.010 ^	0.01
Sulfosulfuron	H	341				0.050 ^	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
Sulfoxaflor	I	341				0.010 ^	0.15
Tebuconazole	F	341				0.010 ^	0.1
Tebufenozide	I	341				0.005 ^	0.04
Tebuthiuron	H	341				0.010 ^	0.8
Tefluthrin	I	341				0.002 ^	NT
Tepraloxydim	H	341				0.030 ^	0.10
Tetraconazole	F	341				0.006 ^	0.06
Tetradifon	I	341				0.010 ^	NT
Tetrahydrophthalimide (THPI)	FM	341				0.50 ^	0.10
Tetramethrin	I	341				0.010 ^	NT
Thiabendazole	F	341				0.006 ^	0.1
Thiacloprid	I	341				0.005 ^	0.030
Thiamethoxam	I	341				0.015 ^	0.02
Thiobencarb	H	341				0.003 ^	0.05
Tolfenpyrad	I	341				0.010 ^	0.03
Triasulfuron	H	341				0.020 ^	0.02
Triclopyr	H	341				0.050 ^	0.60
Trifloxystrobin	F	341				0.003 ^	0.02
Triflumizole	F	341				0.005 ^	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 2018 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.

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

(X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences. Refer to pages 1 through 3 in Appendix K to see the sample origin (domestic, imported, or unknown) for each occurrence.

1 = 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

P = Plant 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 appendices apply to 2018 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)						
Asparagus	709	0			0.003 ^	0.03 AL
Cabbage	707	0			0.005 ^	0.03 AL
Cilantro	177	0			0.001 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.05 AL
Cranberries, Frozen	150	0			0.005 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.05 AL
Green Onions	707	0			0.005 ^	0.1 AL
Kale	707	0			0.002 ^	0.05 AL
Kiwi Fruit	530	0			0.040 ^	0.05 AL
Mangoes	532	0			0.001 - 0.005	0.03 AL
Olives, Canned	569	0			0.001 ^	0.05 AL
Peaches, Canned	755	0			0.001 - 0.040	0.02 AL
Plums, Dried (Prunes)	567	0			0.003 ^	0.3 AL
Raisins	756	0			0.001 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.02 AL
Snap Peas	703	0			0.002 ^	0.03 AL
Spinach, Frozen	188	0			0.001 - 0.005	0.05 AL
Strawberries, Frozen	189	0			0.006 ^	0.05 AL
Sweet Peas, Frozen	189	0			0.005 ^	0.03 AL
Sweet Potatoes	177	0			0.045 ^	0.1 AL
Wheat Flour	<u>724</u>	<u>0</u>			0.001 - 0.010	0.02 AL
TOTAL	10,169	0				
BHC alpha (insecticide) (isomer of BHC)						
Asparagus	709	0			0.012 ^	0.05 AL
Cabbage	707	0			0.005 ^	0.05 AL
Cilantro	177	0			0.001 ^	NT
Cranberries, Canned	378	0			0.010 ^	0.05 AL
Cranberries, Frozen	150	0			0.010 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.05 AL
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.008 ^	0.3 AL *
Kale	707	0			0.001 ^	0.05 AL
Kiwi Fruit	530	0			0.010 ^	0.05 AL
Mangoes	532	0			0.001 - 0.010	0.05 AL
Olives, Canned	569	0			0.001 ^	0.05 AL
Peaches, Canned	755	0			0.001 - 0.010	0.05 AL
Plums, Dried (Prunes)	567	0			0.012 ^	0.05 AL
Raisins	756	0			0.001 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.05 AL
Spinach, Frozen	188	0			0.001 - 0.010	0.05 AL
Strawberries, Frozen	189	0			0.012 ^	0.05 AL
Sweet Peas, Frozen	189	0			0.010 ^	0.05 AL
Sweet Potatoes	177	0			0.010 ^	0.05 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.05 AL
TOTAL	9,841	0				
BHC beta (isomer of BHC)						
Asparagus	709	0			0.014 ^	0.05 AL
Cabbage	707	0			0.005 ^	0.05 AL
Cranberries, Canned	378	0			0.005 ^	0.05 AL
Cranberries, Frozen	150	0			0.005 ^	0.05 AL
Green Onions	707	0			0.005 ^	NT
Kale	707	0			0.004 ^	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
Mangoes	532	0			0.001 - 0.005	0.05 AL
Olives, Canned	569	0			0.001 ^	0.05 AL
Plums, Dried (Prunes)	567	0			0.014 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.05 AL
Spinach, Frozen	188	0			0.001 - 0.005	0.05 AL
Strawberries, Frozen	189	0			0.014 ^	0.05 AL
Sweet Peas, Frozen	189	0			0.005 ^	0.05 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.05 AL
TOTAL	6,539	0				

BHC delta (isomer of BHC)

Mangoes	271	0			0.001 ^	0.05 AL
Olives, Canned	569	0			0.001 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.05 AL
Spinach, Frozen	102	0			0.001 ^	0.05 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.05 AL
TOTAL	1,889	0				

Chlordane cis (isomer of Chlordane)

Asparagus	709	0			0.010 ^	0.1 AL
Cabbage	707	0			0.005 ^	0.1 AL
Cilantro	177	3	1.7	0.002 ^	0.001 ^	NT
Cranberries, Canned	378	0			0.010 ^	0.1 AL
Cranberries, Frozen	150	0			0.010 ^	0.1 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.1 AL
Green Onions	707	0			0.005 ^	0.1 AL
Kale	707	10	1.4	0.002 - 0.004	0.001 ^	0.1 AL
Kiwi Fruit	530	0			0.010 ^	0.1 AL
Mangoes	532	0			0.001 - 0.010	0.1 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Peaches, Canned	755	0			0.001 - 0.010	0.1 AL
Plums, Dried (Prunes)	536	0			0.010 ^	0.1 AL
Raisins	756	0			0.001 ^	0.1 AL
Rice	189	0			0.0012 - 0.0013	NT
Spinach, Frozen	188	0			0.001 - 0.010	0.1 AL
Strawberries, Frozen	189	0			0.010 ^	0.1 AL
Sweet Peas, Frozen	189	0			0.010 ^	0.1 AL
Sweet Potatoes	177	0			0.010 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	NT
TOTAL	9,469	13				

Chlordane trans (isomer of Chlordane)

Asparagus	709	0			0.010 ^	0.1 AL
Cabbage	707	0			0.005 ^	0.1 AL
Cilantro	177	4	2.3	0.002 ^	0.001 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.1 AL
Cranberries, Frozen	150	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.1 AL
Green Onions	707	0			0.005 ^	0.1 AL
Kale	707	4	0.6	0.002 ^	0.001 ^	0.1 AL
Kiwi Fruit	530	0			0.010 ^	0.1 AL
Mangoes	532	0			0.001 - 0.005	0.1 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Peaches, Canned	755	0			0.001 - 0.010	0.1 AL
Plums, Dried (Prunes)	567	0			0.010 ^	0.1 AL
Raisins	756	0			0.001 ^	0.1 AL

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Rice	189	0			0.0012 - 0.0013	NT
Spinach, Frozen	188	0			0.001 - 0.005	0.1 AL
Strawberries, Frozen	189	0			0.010 ^	0.1 AL
Sweet Peas, Frozen	189	0			0.005 ^	0.1 AL
Sweet Potatoes	177	0			0.010 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	NT
TOTAL	9,500	8				
DDD o,p' (metabolite of DDT)						
Asparagus	709	0			0.001 ^	0.5 AL
Cilantro	177	1	0.6	0.002 ^	0.001 ^	NT
Garbanzo Beans, Canned	566	0			0.001 ^	0.2 AL
Mangoes	271	0			0.001 ^	0.2 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Peaches, Canned	404	0			0.001 ^	0.2 AL
Plums, Dried (Prunes)	567	0			0.001 ^	0.2 AL
Raisins	756	0			0.001 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.5 AL
Spinach, Frozen	102	0			0.001 ^	0.5 AL
Strawberries, Frozen	189	0			0.001 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.5 AL
TOTAL	5,257	1				
DDD p,p' (metabolite of DDT)						
Asparagus	709	0			0.005 ^	0.5 AL
Cabbage	707	0			0.005 ^	0.5 AL
Cilantro	177	4	2.3	0.002 ^	0.001 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.1 AL
Cranberries, Frozen	150	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.2 AL
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.010 ^	1.25 AL *
Kiwi Fruit	530	0			0.005 ^	0.1 AL
Mangoes	261	0			0.005 ^	0.2 AL
Peaches, Canned	755	0			0.001 - 0.005	0.2 AL
Plums, Dried (Prunes)	567	0			0.005 ^	0.2 AL
Raisins	756	0			0.001 ^	0.05 AL
Spinach, Frozen	86	0			0.005 ^	0.5 AL
Strawberries, Frozen	189	0			0.005 ^	0.1 AL
Sweet Peas, Frozen	189	0			0.005 ^	0.2 AL
Sweet Potatoes	<u>177</u>	<u>0</u>			0.005 ^	1 AL
TOTAL	7,245	4				
DDE o,p' (metabolite of DDT)						
Asparagus	681	0			0.001 ^	0.5 AL
Kale	707	0			0.002 ^	0.5 AL
Mangoes	271	0			0.001 ^	0.2 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Plums, Dried (Prunes)	567	0			0.001 ^	0.2 AL
Rice	189	0			0.0012 - 0.0013	0.5 AL
Snap Peas	703	0			0.002 ^	0.2 AL
Spinach, Frozen	102	0			0.001 ^	0.5 AL
Strawberries, Frozen	189	0			0.001 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.5 AL
TOTAL	4,736	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
DDE p,p' (metabolite of DDT)						
Asparagus	653	0			0.010 ^	0.5 AL
Cabbage	707	0			0.005 ^	0.5 AL
Cilantro	177	82	46.3	0.002 - 0.022	0.001 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.1 AL
Cranberries, Frozen	150	0			0.005 ^	0.1 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.2 AL
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.010 ^	1.25 AL *
Kale	707	276	39	0.002 - 0.055	0.001 ^	0.5 AL
Kiwi Fruit	530	0			0.005 ^	0.1 AL
Mangoes	532	0			0.001 - 0.005	0.2 AL
Olives, Canned	538	0			0.001 ^	0.1 AL
Peaches, Canned	755	0			0.001 - 0.005	0.2 AL
Plums, Dried (Prunes)	567	0			0.010 ^	0.2 AL
Raisins	756	1	0.1	0.002 ^	0.001 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.5 AL
Snap Peas	703	3	0.4	0.002 ^	0.001 ^	0.2 AL
Spinach, Frozen	188	32	17	0.001 - 0.016	0.001 - 0.005	0.5 AL
Strawberries, Frozen	189	0			0.010 ^	0.1 AL
Sweet Peas, Frozen	189	0			0.005 ^	0.2 AL
Sweet Potatoes	177	1	0.6	0.006 ^	0.005 ^	1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.5 AL
TOTAL	10,457	395				
DDT o,p' (insecticide)						
Cilantro	177	26	14.7	0.002 - 0.005	0.001 ^	NT
Garbanzo Beans, Canned	566	0			0.001 ^	0.2 AL
Kale	707	47	6.6	0.002 - 0.006	0.001 ^	0.5 AL
Mangoes	271	0			0.001 ^	0.2 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Peaches, Canned	404	0			0.001 ^	0.2 AL
Raisins	756	0			0.003 ^	0.05 AL
Rice	189	0			0.0012 - 0.0013	0.5 AL
Snap Peas	703	0			0.001 ^	0.2 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	0.5 AL
TOTAL	5,100	73				
DDT p,p' (insecticide)						
Asparagus	443	0			0.001 - 0.005	0.5 AL
Cabbage	707	0			0.005 ^	0.5 AL
Cilantro	177	20	11.3	0.002 - 0.026	0.001 - 0.006	NT
Green Onions	707	0			0.005 ^	NT
Kale	707	45	6.4	0.003 - 0.008	0.002 ^	0.5 AL
Kiwi Fruit	530	0			0.040 ^	0.1 AL
Mangoes	271	0			0.001 ^	0.2 AL
Olives, Canned	569	0			0.001 ^	0.1 AL
Peaches, Canned	755	0			0.003 - 0.040	0.2 AL
Plums, Dried (Prunes)	567	0			0.001 ^	0.2 AL
Rice	189	0			0.0012 - 0.0013	0.5 AL
Snap Peas	703	0			0.002 ^	0.2 AL
Spinach, Frozen	102	2	2	0.002 ^	0.001 ^	0.5 AL
Strawberries, Frozen	157	0			0.001 ^	0.1 AL
Sweet Potatoes	177	0			0.075 ^	1 AL
Wheat Flour	<u>758</u>	<u>1</u>	0.1	0.002 ^	0.001 ^	0.5 AL
TOTAL	7,519	68				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Asparagus	709	0			0.010 ^	0.03 AL
Cabbage	688	0			0.005 ^	0.03 AL
Cilantro	177	14	7.9	0.004 ^	0.002 ^	NT
Cranberries, Canned	378	0			0.025 ^	0.05 AL
Cranberries, Frozen	150	0			0.025 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.002 ^	0.05 AL
Green Onions	707	0			0.005 ^	0.1 AL
Heavy Cream	341	0			0.015 ^	0.3 AL
Kale	707	81	11.5	0.003 - 0.017	0.002 ^	0.05 AL
Kiwi Fruit	530	0			0.040 ^	0.05 AL
Mangoes	532	0			0.003 - 0.025	0.03 AL
Olives, Canned	506	0			0.003 ^	0.05 AL
Peaches, Canned	755	0			0.002 - 0.040	0.02 AL
Plums, Dried (Prunes)	536	0			0.010 ^	0.3 AL
Raisins	756	0			0.002 ^	0.05 AL
Rice	189	0			0.0026 ^	0.02 AL
Snap Peas	703	0			0.002 ^	0.03 AL
Spinach, Frozen	188	1	0.5	0.003 ^	0.003 - 0.025	0.05 AL
Strawberries, Frozen	189	0			0.010 ^	0.05 AL
Sweet Peas, Frozen	189	0			0.025 ^	0.03 AL
Sweet Potatoes	177	0			0.045 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.003 ^	0.02 AL
TOTAL	10,431	96				
Endrin (insecticide)						
Asparagus	709	0			0.010 ^	0.03 AL
Cabbage	707	0			0.005 ^	0.03 AL
Cilantro	177	0			0.005 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.05 AL
Cranberries, Frozen	150	0			0.005 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.005 - 0.018	0.05 AL
Green Onions	707	0			0.005 ^	0.1 AL
Kale	707	0			0.003 ^	0.05 AL
Kiwi Fruit	530	0			0.035 ^	0.05 AL
Mangoes	532	0			0.003 - 0.005	0.03 AL
Olives, Canned	569	0			0.003 ^	0.05 AL
Peaches, Canned	755	0			0.005 - 0.035	0.02 AL
Plums, Dried (Prunes)	567	0			0.010 ^	0.3 AL
Raisins	756	0			0.005 ^	0.05 AL
Rice	189	0			0.0026 ^	NT
Snap Peas	703	0			0.003 ^	0.03 AL
Spinach, Frozen	188	0			0.003 - 0.005	0.05 AL
Strawberries, Frozen	189	0			0.010 ^	NT
Sweet Peas, Frozen	189	0			0.005 ^	0.05 AL
Sweet Potatoes	177	0			0.035 ^	0.1 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.003 ^	0.02 AL
TOTAL	10,203	0				
Heptachlor (insecticide)						
Asparagus	709	0			0.002 ^	0.05 AL
Cabbage	707	0			0.005 ^	0.05 AL
Cilantro	177	0			0.001 ^	NT
Cranberries, Canned	378	0			0.001 ^	0.05 AL
Cranberries, Frozen	150	0			0.001 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.001 ^	0.05 AL
Green Onions	707	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
Heavy Cream	341	0			0.008 ^	NT
Kale	707	0			0.001 ^	0.05 AL
Kiwi Fruit	530	0			0.10 ^	0.06 AL
Mangoes	532	0			0.001 ^	0.05 AL
Olives, Canned	569	0			0.001 ^	0.05 AL
Peaches, Canned	755	0			0.001 - 0.10	0.05
Plums, Dried (Prunes)	567	0			0.002 ^	0.05 AL
Raisins	756	0			0.001 ^	0.06 AL
Rice	189	0			0.0012 - 0.0013	0.03 AL
Spinach, Frozen	188	0			0.001 ^	0.05 AL
Strawberries, Frozen	189	0			0.002 ^	0.06 AL
Sweet Peas, Frozen	189	0			0.001 ^	NT
Sweet Potatoes	177	0			0.10 ^	0.01 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	NT
TOTAL	9,841	0				

Heptachlor epoxide (metabolite of Heptachlor)

Asparagus	709	0			0.005 ^	0.05 AL
Cabbage	707	0			0.005 ^	0.05 AL
Cilantro	177	0			0.002 ^	NT
Cranberries, Canned	378	0			0.001 ^	0.05 AL
Cranberries, Frozen	150	0			0.001 ^	0.05 AL
Garbanzo Beans, Canned	566	0			0.002 ^	0.05 AL
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.025 ^	NT
Kiwi Fruit	530	0			0.040 ^	0.06 AL
Mangoes	532	0			0.001 - 0.003	0.05 AL
Olives, Canned	569	0			0.003 ^	0.05 AL
Peaches, Canned	755	0			0.002 - 0.040	0.05
Plums, Dried (Prunes)	567	0			0.005 ^	0.05 AL
Raisins	756	0			0.002 ^	0.06 AL
Rice	189	0			0.0026 ^	0.03 AL
Spinach, Frozen	188	0			0.001 - 0.003	0.05 AL
Strawberries, Frozen	189	0			0.005 ^	0.06 AL
Sweet Peas, Frozen	189	0			0.001 ^	NT
Sweet Potatoes	177	0			0.040 ^	0.01 AL
Wheat Flour	<u>758</u>	<u>0</u>			0.003 ^	NT
TOTAL	9,134	0				

Heptachlor epoxide cis (metabolite of Heptachlor)

Kale	<u>707</u>	<u>0</u>			0.003 ^	0.05 AL
TOTAL	707	0				

Hexachlorobenzene - HCB (metabolite and impurity of Quintozene)

Cabbage	707	0			0.005 ^	0.1
Cranberries, Canned	378	0			0.005 ^	NT
Cranberries, Frozen	150	0			0.005 ^	NT
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.002 ^	NT
Kale	707	0			0.001 ^	0.2
Mangoes	532	0			0.001 - 0.005	NT
Olives, Canned	569	0			0.001 ^	NT
Rice	189	0			0.0012 - 0.0013	NT
Spinach, Frozen	188	0			0.001 - 0.005	NT
Sweet Peas, Frozen	125	0			0.005 ^	NT
Wheat Flour	<u>758</u>	<u>0</u>			0.001 ^	NT
TOTAL	5,351	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
Lindane - BHC gamma (insecticide) (also an isomer of BHC)						
Asparagus	709	0			0.013 ^	NT
Cabbage	707	0			0.005 ^	NT
Cilantro	177	0			0.001 ^	NT
Cranberries, Canned	378	0			0.005 ^	0.5 AL
Cranberries, Frozen	150	0			0.005 ^	0.5 AL
Garbanzo Beans, Canned	566	0			0.001 ^	NT
Green Onions	707	0			0.005 ^	NT
Heavy Cream	341	0			0.010 ^	0.3 AL *
Kiwi Fruit	530	0			0.045 ^	0.5 AL
Mangoes	532	0			0.001 - 0.005	NT
Olives, Canned	569	0			0.001 ^	0.5 AL
Peaches, Canned	755	0			0.001 - 0.045	0.05 AL
Plums, Dried (Prunes)	567	0			0.013 ^	0.05 AL
Raisins	756	0			0.001 ^	0.5 AL
Rice	189	0			0.0012 - 0.0013	0.1 AL
Spinach, Frozen	188	0			0.001 - 0.005	NT
Strawberries, Frozen	189	0			0.013 ^	NT
Sweet Peas, Frozen	189	0			0.005 ^	0.5 AL
Sweet Potatoes	177	0			0.045 ^	0.5 AL
Wheat Flour	758	0			0.001 ^	0.1 AL
TOTAL	9,134	0				
Mirex (insecticide)						
Asparagus	709	0			0.001 ^	NT
Plums, Dried (Prunes)	535	0			0.001 ^	NT
Rice	189	0			0.0012 - 0.0013	NT
Spinach, Frozen	102	0			0.001 ^	NT
Strawberries, Frozen	189	0			0.001 ^	NT
TOTAL	1,724	0				
Oxychlordan (metabolite of Chlordane)						
Mangoes	271	0			0.005 ^	0.1 AL
Olives, Canned	569	0			0.005 ^	0.1 AL
Rice	189	0			0.005 ^	NT
Spinach, Frozen	102	0			0.005 ^	0.1 AL
Wheat Flour	758	0			0.005 ^	NT
TOTAL	1,889	0				

NOTES

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

* Measured on a fat basis.

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.

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 41 States, 1 U.S. territory (Puerto Rico), and 32 foreign countries. There were 233 domestic samples from unknown States. There were an additional 45 samples from unknown origins. Overall, 66.2 percent of samples were from U.S. sources, 32.1 percent were imports from single countries, 1.3 percent were of mixed national origin, and 0.4 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 Samples	% of Total	
	AS	CG	CL	GK	GO	KW	MA	SN	SW	AZ	CC	OL	PD	PS	RA	RC	SF	SZ	ZB	RI	WF			CM
Alabama		1																		1	1		3	< 0.1
Arizona		2		2	1			2			8	15	1	3	10	7	2	2	17		7	3	82	0.8
Arkansas				1				7	3		21	8	8	10	27	22	6	2	27	12	34		188	1.8
California	54	198	102	299	58	99		184	63	31	425	245	217	25	406	34	31	25	54	29	73	48	2700	25.6
Colorado		31	2	10	3								10						2		14	10	82	0.8
Connecticut				1										6									7	0.1
Delaware				1																	1		2	< 0.1
Florida		52	2	7		1		7			9	12	7	7	22	6	6		6	2	9	12	167	1.6
Georgia		23	2	76	1				1													7	110	1.0
Idaho									1		5	4			5	2	2	2	2	1	5		29	0.3
Illinois			4	6	5				2	1	42	16	3	10	17	15	10	5	29	11	27	9	212	2.0
Indiana		5	1						1													6	13	0.1
Iowa		2																					2	< 0.1
Kansas											1				1	1					2		6	0.1
Kentucky		2																	1			3	6	0.1
Louisiana		1							6														7	0.1
Maine										3	4				4	3					4		18	0.2
Maryland	2	6	2	19	1		1	1	1	1	9	3	4	4	1	3	1	1	3		11	2	76	0.7
Massachusetts				1					2	35					181						7	4	230	2.2
Michigan	12	20	2	20						8	22	11	6	9	25	8	8	6	18	4	16	5	200	1.9
Minnesota				18			2			13	14	22	9	4	24	6	1	2	58	8	218	27	426	4.0
Mississippi									20														20	0.2
Missouri											8			2	8	5	1		2	1	18		45	0.4
Montana																					2		2	< 0.1
New Hampshire		1									9				1	3	1		1	4	1		21	0.2
New Jersey	1	8	1	12	1			4			10	8	4	28	12	6	8		52	9	9	6	179	1.7
New Mexico		3																					3	< 0.1
New York		45		10					2		29	16	8	6	24	19	11	1	29	4	17	37	258	2.4
North Carolina		19		10					50	1	22	22	1	7	22	9	8	7	15	8	25	3	229	2.2
Ohio		15	5	21	8			14	1		31	17	17	6	12	15	9	6	24	7	137	13	358	3.4
Oregon		1	1	4	1					15	7	3		5	3		6		12	1	19	7	85	0.8
Pennsylvania		3		1				1			6	5		5	7	6	4		39	3	5	13	98	0.9
Puerto Rico																				1			1	< 0.1
Rhode Island												1			6	6							13	0.1
South Carolina			2	23	5														2				32	0.3
Tennessee		1												8			15		98		17		139	1.3
Texas	2	94	8	61	4	2	4	9	5	4	22	27	35	14	43	18	8	9	28	31	38	31	497	4.7
Utah																					1	10	11	0.1
Vermont				1																	26		27	0.3
Virginia																						68	68	0.6
Washington	14	18	1	3	1						1		4	3			2	2				7	56	0.5
Wisconsin		3		3						6				13					2			7	34	0.3
Unknown State	7	84	13	44	9	5	6	8	15	2	3	4	3	2	13	2		1	6		5	1	233	2.2
No. of Domestic	92	638	148	654	98	107	13	233	177	120	708	439	337	171	699	377	140	71	528	137	747	341	6,975	
% of Total	13	90	84	93	14	20	2	33	100	80	94	77	59	90	92	99	74	38	93	72	99	100		66.2

Part 2. Imported Samples

	Fresh F&V									Processed F&V									Others			# of Samples	% of Total			
	AS	CG	CL	GK	GO	KW	MA	SN	SW	AZ	CC	OL	PD	PS	RA	RC	SF	SZ	ZB	RI	WF			CM		
Afghanistan														11											11	0.1
Argentina												18						1							19	0.2
Belgium													1				2								3	< 0.1
Brazil							11															1			12	0.1
Canada	2	49	1	5	18					30		2	9	1					20						137	1.3
Chile						263					16	97		7				13							396	3.8
China											21							11	1						33	0.3
Ecuador	1						43																		44	0.4
Egypt												2													2	< 0.1
Greece						19					8														27	0.3
Guatemala							26	294																	320	3.0
Haiti							1																		1	< 0.1
India																						10			10	0.1
Italy						64													11			1			76	0.7
Korea, Republic											1														1	< 0.1
Mexico	327	13	26	46	586		319	125									27	91				3			1563	14.8
Morocco												3						3							6	0.1
Netherlands																	2								2	< 0.1
New Zealand						77																			77	0.7
Nicaragua							8																		8	0.1
Pakistan																						6			6	0.1
Peru	283						111	50										3							447	4.2
Poland													4												4	< 0.1
Portugal												3													3	< 0.1
Serbia																		1							1	< 0.1
South Africa											1			4											5	< 0.1
Spain												119	3						3						125	1.2
Thailand																						34			34	0.3
Turkey												1						1	4						6	0.1
Uzbekistan														5											5	< 0.1
No. of Imports	613	62	27	51	604	423	519	469	0	30	47	128	117	17	28	0	43	117	34	52	3	0		3,384		
% of Total	86	9	15	7	85	80	98	67	0	20	6	22	21	9	4	0	23	62	6	28	< 1	0			32.1	

Part 3. Mixed National Origin Samples

	Fresh F&V									Processed F&V									Others			# of Samples	% of Total			
	AS	CG	CL	GK	GO	KW	MA	SN	SW	AZ	CC	OL	PD	PS	RA	RC	SF	SZ	ZB	RI	WF			CM		
Argentina / Australia / Chile / France / USA													4												4	< 0.1
Argentina / Australia / Chile / USA													12												12	0.1
Argentina / Chile													1												1	< 0.1
Argentina / Chile / France													2												2	< 0.1
Argentina / Chile / France / USA													61												61	0.6
Argentina / Chile / USA													29												29	0.3
Argentina / USA														5											5	< 0.1
Canada / USA															1										1	< 0.1
China / USA																		1							1	< 0.1
Italy / Mexico																		2							2	< 0.1
Mexico / USA																		1							1	< 0.1
South Africa / USA															4										4	< 0.1
Turkey / USA															12										12	0.1
Turkey / Uzbekistan / USA															6										6	0.1
No. of Mixed National Origin Samples													109	28	4										141	
% of Total													19	4	2											1.3

Part 4. Unknown Origin Samples

	Fresh F&V										Processed F&V										Others			# of	% of
	AS	CG	CL	GK	GO	KW	MA	SN	SW	AZ	CC	OL	PD	PS	RA	RC	SF	SZ	ZB	RI	WF	CM	Samples	Total	
Unknown Origin	4	7	2	2	5			1			2	4	1	1	2	1	1	4		8			45	0.4	
% of Total	1	1	1	< 1	1			< 1			< 1	1	1	< 1	1	1	1	1		1				0.4	

Sample Totals: 709 707 177 707 707 530 532 703 177 150 755 569 567 189 756 379 188 189 566 189 758 341 10,545

Commodity Legend		
AS = Asparagus	KW = Kiwi Fruit	RI = Rice
AZ = Cranberries, Frozen	MA = Mangoes	SF = Spinach, Frozen
CC = Peaches, Canned	OL = Olives, Canned	SN = Snap Peas
CG = Cabbage	PD = Plums, Dried (Prunes)	SW = Sweet Potatoes
CL = Cilantro	PS = Sweet Peas, Frozen	SZ = Strawberries, Frozen
CM = Heavy Cream	RA = Raisins	WF = Wheat Flour
GK = Kale	RC = Cranberries, Canned	ZB = Garbanzo Beans, Canned
GO = Green Onions		

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 2018. Residue data for domestic snap peas are compared with data for samples originating in both Guatemala and Mexico. This commodity was selected because it is a fresh product collected all 12 months of the year and it has more than 100 data points (samples) for each of the three countries compared. 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

2018 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	233	20	8.6	0.003 - 0.15	3.0
	Guatemala	294	47	16.0	0.003 - 0.056	3.0
	Mexico	125	31	24.8	0.003 - 0.38	3.0
Bifenthrin	United States	233	25	10.7	0.002 - 0.104	0.6
	Guatemala	294	4	1.4	0.002 - 0.014	0.6
	Mexico	125	28	22.4	0.002 - 0.20	0.6
Carbendazim (MBC)	United States	233	2	0.9	0.025 - 0.14	NT
	Guatemala	294	35	11.9	0.025 - 0.87	NT
	Mexico	125	4	3.2	0.025 - 0.27	NT
Chlorantraniliprole	United States	233	59	25.3	0.017 - 0.18	2.0
	Guatemala	294	0	0		2.0
	Mexico	125	23	18.4	0.017 - 0.073	2.0
Cyhalothrin, Lambda	United States	233	19	8.2	0.003 - 0.018	0.20
	Guatemala	294	109	37.1	0.003 - 0.049	0.20
	Mexico	125	5	4.0	0.003 - 0.073	0.20
Cypermethrin	United States	233	28	12.0	0.02 - 0.37	0.5
	Guatemala	294	27	9.2	0.02 - 0.53	0.5
	Mexico	125	19	15.2	0.02 - 0.47	0.5
DCPA	United States	233	57	24.5	0.002 - 0.011	NT
	Guatemala	294	1	0.3	0.002	NT
	Mexico	125	1	0.8	0.003	NT
Dimethoate	United States	233	20	8.6	0.025 - 1.03	2.0
	Guatemala	294	89	30.3	0.025 - 3.2	2.0
	Mexico	125	3	2.4	0.025	2.0
Pyraclostrobin	United States	233	13	5.6	0.003 - 0.104	0.5
	Guatemala	294	16	5.4	0.003 - 0.33	0.5
	Mexico	125	4	3.2	0.003	0.5
Tebuconazole	United States	233	7	3.0	0.008 - 0.29	NT
	Guatemala	294	84	28.6	0.008 - 0.22	NT
	Mexico	125	6	4.8	0.008 - 0.24	NT
Tetrahydrophthalimide (THPI)	United States	233	1	0.4	0.012	0.05
	Guatemala	294	40	13.6	0.012 - 0.26	0.05
	Mexico	125	4	3.2	0.012 - 0.029	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 196 commodity/pesticide pairs (including metabolites, isomers, and degradates) with detections in at least 5 percent of the samples tested. The data shown include the range and mean of values detected and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2018 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 violative.

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 Asparagus (1 pesticide)							
Chlorpyrifos *	I	6.2	709	44	0.005 - 1.1	0.079	5.0
2 Cabbage (1 pesticide)							
Imidacloprid	I	7.6	707	54	0.010 - 0.093	0.022	3.5
3 Cilantro (23 pesticides)							
Azoxystrobin	F	21.5	177	38	0.002 - 3.1	0.225	30.0
Bifenthrin *	I	10.2	177	18	0.002 - 1.1	0.217	6.0
Boscalid	F	39	177	69	0.002 - 2.2	0.1	150
Chlorantraniliprole	I	34.5	177	61	0.003 - 0.29	0.014	25
Chlorpyrifos *	I	14.7	177	26	0.002 - 0.42	0.037	0.1
Cypermethrin *	I	11.3	177	20	0.037 - 1.1	0.322	10
DCPA	H	67.2	177	119	0.002 - 0.16	0.01	5.0
Diazinon	I	6.2	177	11	0.002 - 0.021	0.005	NT
Famoxadone	F	5.6	177	10	0.012 - 0.44	0.194	25
Fluopyram	F	10.7	177	19	0.002 - 0.69	0.039	40
Flupyradifurone	I	26.6	177	47	0.002 - 0.53	0.034	30
Imidacloprid	I	34.5	177	61	0.002 - 0.57	0.03	8.0
Linuron	H	44.6	177	79	0.005 - 0.66	0.056	3.0
Metolachlor	H	6.8	177	12	0.002 - 0.013	0.004	8.0
Oxyfluorfen	H	6.2	177	11	0.002 - 0.005	0.002	NT
Pendimethalin	H	18.1	177	32	0.002 - 0.010	0.004	NT
Permethrin (parent)							
Permethrin cis ¹	IM	12.4	177	22	0.002 - 0.13	0.009	NT
Permethrin trans ¹	IM	12.4	177	22	0.002 - 0.17	0.011	NT
Prometryn	H	31.6	177	56	0.002 - 0.15	0.014	3.5
Pronamide	H	11.9	177	21	0.002 - 0.007	0.003	NT
Propiconazole	F	6.8	177	12	0.008 - 1.7	0.242	13
Pyraclostrobin	F	19.2	177	34	0.002 - 6.7	0.416	40
Quintozene (PCNB) (parent)	F	13	177	23	0.002 - 0.006	0.002	NT
Pentachloroaniline (PCA) ²	FM	9.6	177	17	0.002 - 0.003	0.002	NT
Thiamethoxam *	I	22	177	39	0.003 - 0.032	0.007	0.02
4 Cranberries, Frozen (2 pesticides)							
Fenbuconazole	F	8	150	12	0.001 - 0.027	0.006	0.5
Methoxyfenozide	I	20	150	30	0.002 - 0.007	0.004	3
5 Garbanzo Beans, Canned (1 pesticide)							
Methoprene	R	5.8	566	33	0.025 - 0.068	0.032	EX
6 Green Onions (6 pesticides)							
Azoxystrobin	F	33.2	707	235	0.002 - 0.46	0.072	7.5
Chlorantraniliprole	I	6.9	707	49	0.022 - 0.13	0.052	3.0
Cypermethrin *	I	18.5	707	131	0.010 - 0.27	0.049	6.0

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
DCPA	H	16.5	707	117	0.005 - 0.22	0.031	1.0
Deltamethrin ³ *	I	9.3	707	66	0.008 - 0.095	0.027	1.5
Dimethomorph	F	7.8	707	55	0.010 - 0.27	0.053	15.0
7 Heavy Cream (3 pesticides)							
Clopyralid	H	58.1	341	198	0.077 - 0.40	0.142	0.2
Cyhalothrin, Lambda *	I	55.1	341	188	0.001 - 0.060	0.004	0.4
Novaluron *	I	5	341	17	0.005 - 0.052	0.011	1.0
8 Kale (27 pesticides)							
Acetamiprid *	I	10.9	707	77	0.017 - 3.1	0.261	15
Ametoctradin	F	6.2	707	44	0.003 - 22.9	3.371	50
Azoxystrobin	F	25	707	177	0.003 - 9.8	0.811	25
Bifenthrin *	I	26.9	707	190	0.002 - 2.6	0.122	3.5
Boscalid	F	18.8	707	133	0.017 - 11.4	0.969	60
Chlorantraniliprole	I	20.4	707	144	0.017 - 7.6	0.484	11
Cyantraniliprole	I	11.9	707	84	0.017 - 2.8	0.343	30
Cyfluthrin *	I	13	707	92	0.013 - 1.6	0.213	7.0
Cyhalothrin, Lambda *	I	6.2	707	44	0.003 - 0.91	0.1	0.01
Cypermethrin *	I	24.2	707	171	0.020 - 5.3	0.592	14.0
DCPA	H	56.6	707	400	0.002 - 0.85	0.032	5.0
Fenamidone	F	8.1	707	57	0.008 - 15.3	0.603	60
Flonicamid	I	7.8	707	55	0.083 - 2.0	0.515	16
Fluopicolide	F	37.3	707	264	0.003 - 4.4	0.114	18
Fluopyram	F	16.4	707	116	0.003 - 2.9	0.153	50
Flupyradifurone	I	8.9	707	63	0.050 - 3.6	0.469	40
Fluxapyroxad	F	12.9	707	91	0.005 - 1.5	0.188	4.0
Indoxacarb	I	8.5	707	60	0.005 - 3.5	0.38	12
Mandipropamid	F	12.9	707	91	0.008 - 6.6	0.586	25
Methoxyfenozide	I	10.2	707	72	0.017 - 5.2	0.811	30
Pendimethalin	H	10.5	707	74	0.005 - 0.053	0.011	0.20
Penthiopyrad	F	12.4	707	88	0.003 - 14.7	1.17	50
Pyraclostrobin	F	19.5	707	138	0.003 - 11.1	0.858	16
Spinetoram	I	13	707	92	0.017 - 0.41	0.061	10
Spirotetramat	I	13	707	92	0.008 - 1.5	0.123	8.0
Thiamethoxam *	I	10.2	707	72	0.050 - 0.26	0.078	3.0
Trifluralin	H	5	707	35	0.002 - 0.006	0.002	0.05
9 Kiwi Fruit (3 pesticides)							
Fenhexamid	F	9.1	530	48	0.015 - 1.5	0.517	15.0
Fludioxonil	F	12.3	530	65	0.067 - 6.1	1.312	20
Iprodione	F	22.5	530	119	0.025 - 2.8	0.116	10.0
10 Mangoes (3 pesticides)							
Carbendazim (MBC) ⁴	F	5.1	532	27	0.001 - 0.067	0.009	NT
Thiabendazole	F	28.9	532	154	0.001 - 2.4	0.342	10.0
5-Hydroxythiabendazole ⁵	FM	7	271	19	0.001 - 0.004	0.002	10.0
Trifloxystrobin	F	7.3	532	39	0.001 - 0.073	0.014	0.7

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
11 Olives, Canned (2 pesticides)							
Buprofezin	I	15.5	569	88	0.001 - 0.042	0.01	3.5
Fenpropathrin	I	41.1	569	234	0.001 - 0.11	0.015	5.0
12 Plums, Dried / Prunes (6 pesticides)							
Azoxystrobin	F	6.5	567	37	0.002 - 0.014	0.004	2.0
Boscalid	F	6.5	567	37	0.003 - 0.032	0.01	3.5
Diphenylamine (DPA)	F	7.5	536	40	0.002 - 0.007	0.003	NT
Hexythiazox	I	8.6	567	49	0.002 - 0.026	0.008	1.3
Methoxyfenozide	I	10.6	536	57	0.004 - 0.086	0.011	0.30
Piperonyl butoxide *	I	6	567	34	0.005 - 0.62	0.052	10
13 Raisins (33 pesticides)							
Acetamiprid *	I	12.6	756	95	0.002 - 0.18	0.017	0.35
Azoxystrobin	F	30	756	227	0.002 - 0.36	0.027	2.0
Bifenthrin *	I	76.9	756	581	0.002 - 0.027	0.002	0.2
Boscalid	F	82.3	756	622	0.002 - 1.0	0.059	8.5
Buprofezin	I	25.5	756	193	0.002 - 0.17	0.004	2.5
Chlorantraniliprole	I	27	756	204	0.003 - 0.39	0.02	5.0
Chlorpyrifos *	I	5.2	756	39	0.002 - 0.12	0.006	0.01
Cyprodinil	F	19	756	144	0.003 - 0.13	0.024	5.0
Difenoconazole	F	21.6	756	163	0.002 - 0.19	0.018	6.0
Esfenvalerate+Fenvalerate Total *	I	5.2	756	39	0.004 - 0.041	0.008	0.05
Etoazole	A	8.5	756	64	0.002 - 0.043	0.005	1.5
Fenpropathrin	I	8.6	756	65	0.004 - 1.0	0.082	10.0
Fenpyroximate	A	36.8	756	278	0.003 - 0.52	0.039	1.0
Flubendiamide	I	31.2	714	223	0.002 - 0.45	0.028	1.4
Fludioxonil	F	7.1	756	54	0.010 - 0.080	0.024	2.0
Fluopyram	F	50.3	756	380	0.002 - 0.30	0.024	3.0
Flupyradifurone	I	19	756	144	0.003 - 0.35	0.043	5.0
Flutriafol	F	49.6	756	375	0.002 - 0.57	0.025	2.4
Fluxapyroxad	F	9.1	756	69	0.002 - 0.21	0.019	5.7
Imidacloprid	I	83.9	756	634	0.002 - 0.23	0.017	1.5
Kresoxim-methyl	F	23.7	756	179	0.003 - 0.087	0.006	1.5
Methoxyfenozide	I	87.2	756	659	0.002 - 0.62	0.059	1.5
MGK-264 *	I	15.2	756	115	0.003 - 0.22	0.027	5
Myclobutanil	F	64	756	484	0.002 - 0.091	0.009	10.0
Piperonyl butoxide *	I	15.6	756	118	0.003 - 0.21	0.024	10
Pyraclostrobin	F	65.3	756	494	0.002 - 0.70	0.03	7.0
Pyrimethanil	F	6.6	756	50	0.002 - 0.57	0.03	8.0
Quinoxifen	F	74.3	756	562	0.002 - 0.095	0.007	2.0
Spirodiclofen	A	14	756	106	0.008 - 0.35	0.039	6.0
Spirotetramat	I	70.6	756	534	0.003 - 0.13	0.016	3.0
Tebuconazole	F	61.8	756	467	0.002 - 0.35	0.015	5.0
Tetraconazole	F	56.3	630	355	0.002 - 0.21	0.012	0.20
Trifloxystrobin	F	60.7	756	459	0.002 - 0.096	0.007	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
14 Rice (9 pesticides)							
Azoxystrobin	F	16.9	189	32	0.001 - 0.010	0.003	5.0
Deltamethrin ³ *	I	11.6	189	22	0.001 - 0.038	0.008	1.0
Dinotefuran *	I	7.9	189	15	0.004 - 0.034	0.016	9.0
Isoprothiolane	F	5.8	189	11	0.002 - 0.19	0.033	NT
MGK-264 *	I	15.9	189	30	0.002 - 0.12	0.011	5
Piperonyl butoxide *	I	24.9	189	47	0.003 - 0.49	0.046	20
Propiconazole	F	43.4	189	82	0.001 - 0.031	0.005	7.0
Tebuconazole	F	7.4	189	14	0.003 - 0.035	0.01	NT
Tricyclazole	F	5.3	189	10	0.002 - 0.36	0.052	3.0
15 Snap Peas (11 pesticides)							
Azoxystrobin	F	14.8	703	104	0.003 - 0.38	0.028	3.0
Bifenthrin *	I	8.1	703	57	0.002 - 0.20	0.03	0.6
Carbendazim (MBC) ⁴	F	6.1	703	43	0.025 - 0.88	0.192	NT
Chlorantraniliprole	I	11.7	703	82	0.017 - 0.18	0.036	2.0
Cyhalothrin, Lambda *	I	19.1	703	134	0.003 - 0.073	0.01	0.20
Cypermethrin *	I	11	703	77	0.020 - 0.56	0.082	0.5
DCPA	H	8.4	703	59	0.002 - 0.011	0.002	NT
Dimethoate	I	15.9	703	112	0.025 - 3.2	0.112	2.0
Pyraclostrobin	F	5	703	35	0.003 - 0.33	0.024	0.5
Tebuconazole	F	14.1	703	99	0.008 - 0.29	0.052	NT
Tetrahydrophthalimide (THPI) ⁶	FM	6.4	703	45	0.012 - 0.26	0.04	0.05
16 Spinach, Frozen (27 pesticides)							
Acetamiprid *	I	6.4	188	12	0.002 - 0.054	0.024	3.00
Ametoctradin	F	26.1	188	49	0.001 - 3.4	0.323	50.0
Azoxystrobin	F	23.9	188	45	0.001 - 3.5	0.434	30.0
Bifenthrin *	I	5.9	188	11	0.001 - 0.056	0.009	0.2
Boscalid	F	12.2	188	23	0.003 - 0.26	0.019	70
Chlorantraniliprole	I	19.7	188	37	0.006 - 3.2	0.324	13
Clothianidin *	I	25.5	188	48	0.001 - 0.096	0.011	4.0
Cyfluthrin *	I	22.9	188	43	0.016 - 1.3	0.456	6.0
Cypermethrin *	I	31.4	188	59	0.010 - 5.3	0.694	10
DCPA	H	6.9	188	13	0.001 - 0.003	0.002	NT
Dimethomorph	F	6.4	188	12	0.003 - 0.17	0.05	30.0
Fenamidone	F	16.5	188	31	0.001 - 0.71	0.137	60
Flubendiamide	I	9.6	188	18	0.001 - 1.5	0.265	11
Fluopicolide	F	19.7	188	37	0.001 - 0.053	0.014	25
Flupyradifurone	I	20.2	188	38	0.002 - 1.9	0.201	30
Flutriafol	F	10.6	188	20	0.002 - 1.5	0.214	10
Fluxapyroxad	F	12.8	188	24	0.013 - 1.6	0.357	30
Imidacloprid	I	16	188	30	0.003 - 0.084	0.021	3.5
Linuron	H	5.3	188	10	0.003 - 0.13	0.051	NT
Mandipropamid	F	34	188	64	0.003 - 2.7	0.395	25
Methoxyfenozide	I	30.9	188	58	0.003 - 3.5	0.492	30
Pendimethalin	H	10.1	188	19	0.003 - 0.011	0.005	NT
Penthiopyrad	F	11.7	188	22	0.003 - 1.1	0.344	30

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
Permethrin Total	I	46.8	188	88	0.010 - 7.2	1.191	20
Propamocarb	F	5.9	102	6	0.001 - 0.045	0.012	NT
Pyraclostrobin	F	21.3	188	40	0.001 - 1.8	0.266	40
Spinetoram	I	6.4	188	12	0.007 - 0.26	0.051	8.0
17 Strawberries, Frozen (26 pesticides)							
Acetamiprid *	I	47.1	189	89	0.002 - 0.12	0.018	0.60
Azoxystrobin	F	19	189	36	0.002 - 0.086	0.011	10.0
Bifenthrin *	I	43.9	189	83	0.002 - 0.099	0.017	3.0
Boscalid	F	35.4	189	67	0.003 - 0.11	0.016	4.5
Carbendazim (MBC) ⁴	F	44.4	189	84	0.001 - 0.092	0.012	7.0
Chlorantraniliprole	I	6.9	189	13	0.010 - 0.025	0.015	1.0
Cyprodinil	F	18.5	189	35	0.006 - 0.24	0.052	5.0
Fenhexamid	F	9.5	189	18	0.014 - 0.093	0.035	3.0
Fenpropathrin	I	14.8	189	28	0.020 - 0.28	0.067	2.0
Fenpyroximate	A	11.6	189	22	0.006 - 0.033	0.014	1.0
Fonicamid	I	39.2	189	74	0.007 - 0.11	0.041	1.5
Fluopyram	F	12.2	189	23	0.006 - 0.14	0.036	2.0
Hexythiazox	I	12.2	189	23	0.002 - 0.038	0.008	6
Malathion	I	34.4	189	65	0.002 - 0.042	0.01	8
Metalaxyl/Mefenoxam ⁷	F	20.6	189	39	0.001 - 0.056	0.006	10.0
Methoxyfenozide	I	9	189	17	0.005 - 0.066	0.023	2.0
Myclobutanil	F	19.6	189	37	0.004 - 0.14	0.028	0.50
Novaluron *	I	25.9	189	49	0.010 - 0.12	0.026	0.45
Oxydemeton methyl	I	13.2	189	25	0.002 - 0.12	0.023	2.0
Pyraclostrobin	F	27.5	189	52	0.003 - 0.11	0.019	1.2
Pyrimethanil	F	16.4	189	31	0.057 - 0.74	0.174	3.0
Spinosad A *	IM	6.9	189	13	0.004 - 0.015	0.006	0.90
Spiromesifen	I	5.3	189	10	0.012 - 0.23	0.044	2.0
Tetrahydrophthalimide (THPI) ⁶	FM	49.7	189	94	0.010 - 0.63	0.121	20.0
Thiamethoxam *	I	30.7	189	58	0.004 - 0.048	0.013	0.30
Trifloxystrobin	F	14.8	189	28	0.002 - 0.061	0.013	1.5
18 Sweet Peas, Frozen (2 pesticides)							
Dimethoate	I	10.1	189	19	0.004 - 0.058	0.02	2.0
Pyraclostrobin	F	16.4	189	31	0.001 - 0.051	0.008	0.2
19 Sweet Potatoes (3 pesticides)							
Dicloran	F	20.3	177	36	0.091 - 2.5	0.574	10
Fludioxonil	F	25.4	177	45	0.075 - 1.5	0.332	6.0
Piperonyl butoxide *	I	6.2	177	11	0.019 - 0.26	0.075	0.25
20 Wheat Flour (4 pesticides)							
Chlorpyrifos methyl	I	21.9	758	166	0.001 - 0.072	0.012	6.0
Deltamethrin ³	I	52.8	758	400	0.001 - 0.075	0.013	1.0
Malathion	I	24.5	758	186	0.003 - 0.081	0.008	8
Piperonyl butoxide *	I	30.5	758	231	0.003 - 0.96	0.125	20

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
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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.

1 Isomer of parent, permethrin.

2 Metabolite of parent, quintozone.

3 Includes parent, tralomethrin.

4 Metabolite of benomyl and thiophanate methyl.

5 Metabolite of parent, thiabendazole.

6 Metabolite of captafol and captan.

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

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

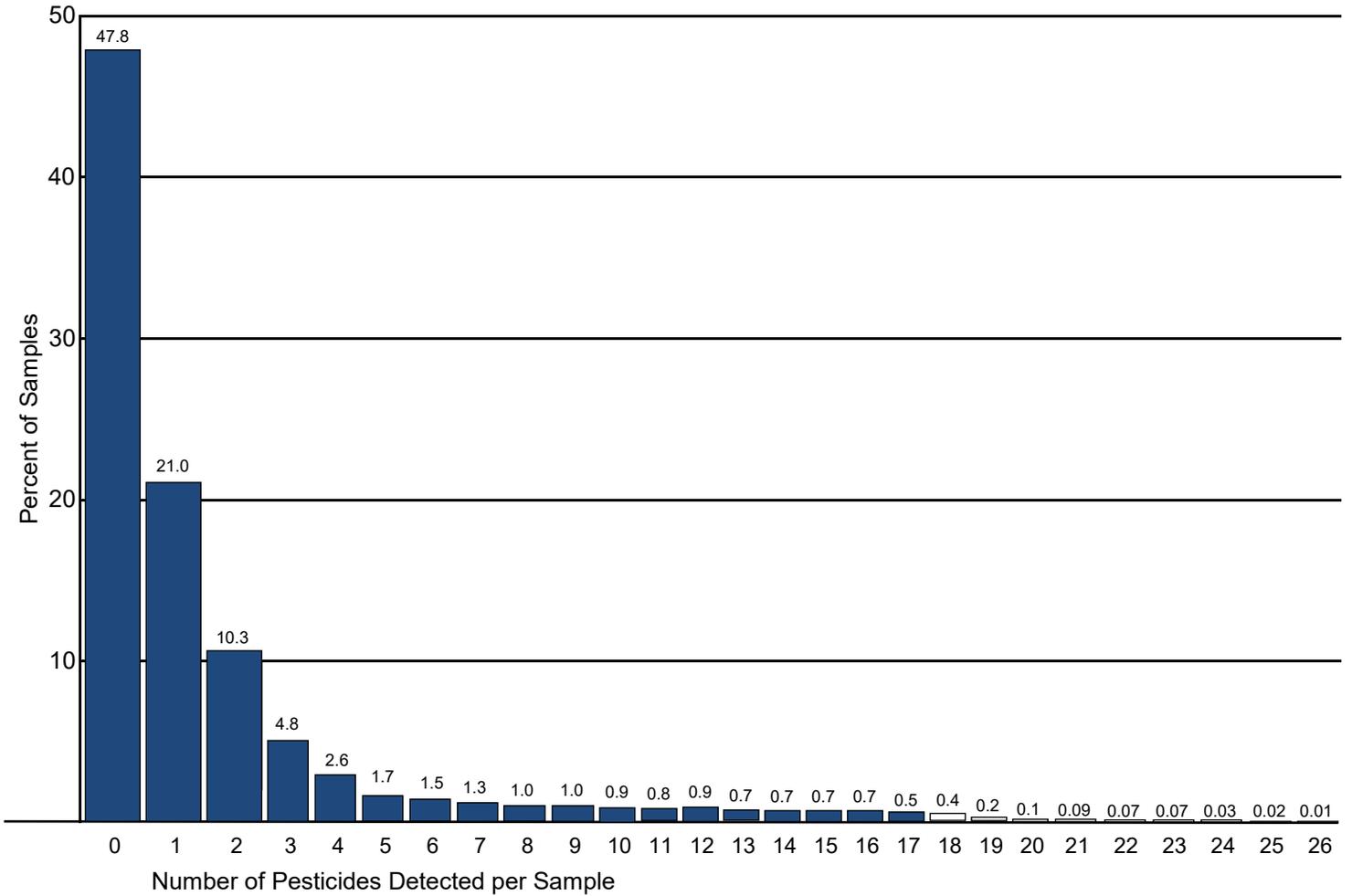
Appendix J

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 of Appendix J 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 of Appendix J shows the number of pesticides detected by individual commodity. For the 10,545 samples analyzed, 47.8 percent of the samples had no detectable pesticides, 21.0 percent had 1 pesticide, and 31.2 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	18	19	20	21	22	23	24	25	26
# of	Samples	5,043	2,215	1,082	505	273	183	162	136	108	104	92	86	95	78	73	73	76	57	37	24	14	9	7	7	3	2	1
% of Total	Samples	47.8	21.0	10.3	4.8	2.6	1.7	1.5	1.3	1.0	1.0	0.9	0.8	0.9	0.7	0.7	0.7	0.7	0.5	0.4	0.2	0.1	0.09	0.07	0.07	0.03	0.02	0.01

TOTAL NUMBER OF SAMPLES = 10,545

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

Number of Pesticides ¹ Detected per Sample

Commodity (# of samples)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Fresh Fruit and Vegetables:													Percent														
Asparagus (709)	87.9	9.7	2.1	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabbage (707)	74.1	16.1	4.2	3.0	1.6	0.6	0.3	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cilantro (177)	2.3	7.9	10.7	5.6	10.7	11.3	13.6	12.4	6.2	4.5	5.6	2.8	3.4	0.6	1.1	0.6	0.6	--	--	--	--	--	--	--	--	--	--
Green Onions (707)	32.1	36.1	20.2	6.1	4.4	0.8	--	0.1	--	--	--	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kale (707)	5.8	11.0	10.7	10.7	11.3	12.0	10.2	8.3	5.4	4.5	3.5	2.7	1.6	0.8	0.4	0.6	0.1	0.1	--	--	--	--	--	--	--	--	--
Kiwi Fruit (530)	60.9	25.8	10.6	2.1	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mangoes (532)	52.4	36.1	6.6	3.9	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Snap Peas (703)	26.7	29.4	23.2	12.2	5.3	2.3	0.6	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sweet Potatoes (177)	49.7	43.5	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Processed Fruit and Vegetables:																											
Cranberries, Canned (379)	95.8	3.4	--	0.3	--	0.3	--	--	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cranberries, Frozen (150)	66.0	25.3	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garbanzo Beans, Can (566)	91.2	8.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Olives, Canned (569)	49.6	37.8	11.2	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Peaches, Canned (755)	88.3	9.0	2.1	0.4	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Plums, Dried/Prunes (567)	51.9	33.3	11.3	3.0	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Raisins (756)	0.7	1.3	2.6	2.9	2.1	2.5	2.9	2.1	3.8	4.6	4.9	6.6	7.8	8.1	8.3	8.2	9.5	7.1	4.9	3.2	1.9	1.2	0.9	0.9	0.4	0.3	0.1
Spinach, Frozen (188)	16.0	8.5	4.8	9.0	10.1	5.9	8.5	10.1	7.4	7.4	2.1	2.7	3.2	3.2	0.5	--	--	0.5	--	--	--	--	--	--	--	--	--
Strawberries, Frozen (189)	11.1	8.5	7.4	5.8	4.2	5.8	10.1	7.4	7.4	7.4	7.4	2.1	6.9	2.1	2.1	2.6	1.1	0.5	--	--	--	--	--	--	--	--	--
Sweet Peas, Frozen (189)	67.7	27.0	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent of Total Samples	50.8	19.5	8.2	3.8	2.5	1.9	1.7	1.4	1.1	1.1	1.0	0.9	1.0	0.8	0.8	0.8	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.03	0.02	0.01
Actual Number of Samples	4,702	1,809	759	349	233	173	159	134	106	103	90	85	95	78	73	72	76	57	37	24	14	9	7	7	3	2	1

TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 9,257

Grain Products:

Rice (189)	34.4	18.5	18.5	13.2	7.9	1.6	1.1	1.1	1.1	0.5	1.1	0.5	--	--	--	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Wheat Flour (758)	28.5	26.9	24.3	16.1	3.2	0.9	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Actual Number of Samples	281	239	219	147	39	10	3	2	2	1	2	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	

Dairy Product:

Heavy Cream (341)	17.6	49.0	30.5	2.6	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	60	167	104	9	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 2018, a total of 704 samples with 909 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Pesticides exceeding the tolerance were detected in 82 samples including 7 samples of asparagus, 1 sample of cabbage, 8 samples of cilantro, 9 samples of heavy cream, 19 samples of kale, 1 sample of kiwi fruit, 3 samples of mangoes, 3 samples of raisins, 1 sample of rice, 4 samples of frozen spinach, 23 samples of snap peas, 1 sample of sweet potatoes, and 2 samples of frozen strawberries. Of those 82 samples, 39 were reported as imported produce. One asparagus sample and one snap pea sample contained 2 pesticides each that exceeded the established tolerances.

In addition, 642 samples were found to have pesticides for which no tolerance was established, including 444 fresh fruit and vegetable samples, 151 processed fruit/vegetable samples, 30 rice samples, and 17 wheat flour samples.

- o 508 samples contained 1 pesticide for which no tolerance was established.
- o 106 samples contained 2 pesticides for which no tolerance was established.
- o 13 samples contained 3 pesticides for which no tolerance was established.
- o 13 samples contained 4 pesticides for which no tolerance was established.
- o 2 samples contained 7 pesticides for which no tolerance was established.

Twenty of the 642 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 / Abamectin	0.05	0.11	0.01	Mexico
2 Asparagus / Abamectin	0.05	0.07	0.01	Peru
3 Asparagus / Chlorfenapyr ¹	0.015	0.66	0.01	Peru
4 Asparagus / Cyhalothrin, Total ²	0.005	0.065	0.01	Mexico
5 Asparagus / Cypermethrin ¹	0.01	0.81	0.05	Peru
6 Asparagus / Cypermethrin	0.01	0.084	0.05	Peru
7 Asparagus / Methamidophos	0.005	0.13	0.02	Peru
8 Asparagus / Methamidophos	0.005	0.069	0.02	Peru
9 Cabbage / Methamidophos	0.01	0.099	0.02	Mexico
10 Cilantro / Chlorpyrifos	0.001	0.42	0.1	Mexico
11 Cilantro / Chlorpyrifos	0.001	0.32	0.1	U.S.
12 Cilantro / Cyhalothrin, Total ²	0.003	0.19	0.01	Canada
13 Cilantro / Cyhalothrin, Total ²	0.003	0.13	0.01	Mexico
14 Cilantro / Cyhalothrin, Total ²	0.003	0.06	0.01	U.S.
15 Cilantro / Cyhalothrin, Total ²	0.003	0.022	0.01	Mexico
16 Cilantro / Thiamethoxam	0.002	0.032	0.02	U.S.
17 Cilantro / Thiamethoxam	0.002	0.031	0.02	U.S.
18 Heavy Cream / Clopyralid	0.077	0.4	0.2	U.S.
19 Heavy Cream / Clopyralid	0.077	0.37	0.2	U.S.
20 Heavy Cream / Clopyralid	0.077	0.36	0.2	U.S.
21 Heavy Cream / Clopyralid	0.077	0.33	0.2	U.S.
22 Heavy Cream / Clopyralid	0.077	0.33	0.2	U.S.
23 Heavy Cream / Clopyralid	0.077	0.33	0.2	U.S.
24 Heavy Cream / Clopyralid	0.077	0.32	0.2	U.S.
25 Heavy Cream / Clopyralid	0.077	0.31	0.2	U.S.
26 Heavy Cream / Clopyralid	0.077	0.3	0.2	U.S.
27 Kale / Cyhalothrin, Lambda	0.002	0.91	0.01	U.S.
28 Kale / Cyhalothrin, Lambda	0.002	0.6	0.01	U.S.
29 Kale / Cyhalothrin, Lambda	0.002	0.54	0.01	U.S.
30 Kale / Cyhalothrin, Lambda	0.002	0.48	0.01	U.S.
31 Kale / Cyhalothrin, Lambda	0.002	0.37	0.01	U.S.
32 Kale / Cyhalothrin, Lambda	0.002	0.27	0.01	U.S.

Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
33 Kale / Cyhalothrin, Lambda	0.002	0.25	0.01	U.S.
34 Kale / Cyhalothrin, Lambda	0.002	0.23	0.01	U.S.
35 Kale / Cyhalothrin, Lambda	0.002	0.2	0.01	U.S.
36 Kale / Cyhalothrin, Lambda	0.002	0.13	0.01	U.S.
37 Kale / Cyhalothrin, Lambda	0.002	0.069	0.01	U.S.
38 Kale / Cyhalothrin, Lambda	0.002	0.05	0.01	U.S.
39 Kale / Cyhalothrin, Lambda	0.002	0.04	0.01	U.S.
40 Kale / Cyhalothrin, Lambda	0.002	0.038	0.01	U.S.
41 Kale / Cyhalothrin, Lambda	0.002	0.034	0.01	U.S.
42 Kale / Cyhalothrin, Lambda	0.002	0.027	0.01	U.S.
43 Kale / Deltamethrin ³	0.006	0.58	0.05	U.S.
44 Kale / Emamectin benzoate	0.002	0.09	0.050	U.S.
45 Kale / Emamectin benzoate	0.002	0.058	0.050	U.S.
46 Kiwi Fruit / Cyhalothrin, Total ²	0.015	0.022	0.01	Chile
47 Mangoes / Acephate	0.015	0.095	0.02	Nicaragua
48 Mangoes / Acephate	0.015	0.091	0.02	Nicaragua
49 Mangoes / Acephate	0.015	0.049	0.02	Nicaragua
50 Raisins / Chlorpyrifos	0.001	0.12	0.01	U.S.
51 Raisins / Chlorpyrifos	0.001	0.029	0.01	U.S.
52 Raisins / Tetraconazole	0.001	0.21	0.20	U.S.
53 Rice / Thiamethoxam	0.001	0.096	0.02	India
54 Snap Peas / Abamectin ⁴	0.025	0.042	0.01	Peru
55 Snap Peas / Chlorfenapyr	0.05	0.083	0.01	Mexico
56 Snap Peas / Deltamethrin ³	0.006	0.098	0.05	Peru
57 Snap Peas / Deltamethrin ³	0.006	0.078	0.05	Peru
58 Snap Peas / Deltamethrin ³	0.006	0.07	0.05	Guatemala
59 Snap Peas / Deltamethrin ^{3,4}	0.006	0.063	0.05	Peru
60 Snap Peas / Dimethoate	0.015	3.2	2.0	Guatemala
61 Snap Peas / Fenpropathrin	0.002	0.046	0.02	U.S.
62 Snap Peas / Fludioxonil	0.005	0.034	0.01	Peru
63 Snap Peas / Fludioxonil	0.005	0.023	0.01	Peru
64 Snap Peas / Novaluron	0.01	0.07	0.01	Mexico
65 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.26	0.05	Guatemala
66 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.21	0.05	Guatemala
67 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.14	0.05	Guatemala

Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
68 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.13	0.05	Guatemala
69 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.11	0.05	Guatemala
70 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.099	0.05	Guatemala
71 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.094	0.05	Guatemala
72 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.091	0.05	Guatemala
73 Snap Peas / Tetrahydrophthalimide (THPI) ⁵	0.007	0.072	0.05	Guatemala
74 Snap Peas / Thiamethoxam	0.03	0.24	0.02	Mexico
75 Snap Peas / Thiamethoxam	0.03	0.1	0.02	Mexico
76 Snap Peas / Thiamethoxam	0.03	0.05	0.02	U.S.
77 Snap Peas / Thiamethoxam	0.03	0.05	0.02	Mexico
78 Spinach, Frozen / Cyhalothrin, Total ²	0.003	0.51	0.01	U.S.
79 Spinach, Frozen / Cyhalothrin, Total ²	0.003	0.18	0.01	U.S.
80 Spinach, Frozen / Cyhalothrin, Total ²	0.003	0.072	0.01	U.S.
81 Spinach, Frozen / Cyhalothrin, Total ²	0.003	0.052	0.01	U.S.
82 Strawberries, Frozen / Pyriproxyfen	0.001	0.37	0.30	U.S.
83 Strawberries, Frozen / Triflumizole	0.01	2.8	2.0	Mexico
84 Sweet Potatoes / Piperonyl butoxide	0.015	0.26	0.25	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 (7 pesticides)								
Carbendazim (MBC) ⁶	709	1	0.1	0.001 ^	0.001 ^	0	1	0
Carbofuran (parent)	709	6	0.8	0.002 - 0.034	0.002 ^	0	6	0
3-Hydroxycarbofuran ⁷	709	2	0.3	0.005 - 0.006	0.003 ^	0	2	0
DCPA	709	3	0.4	0.002 - 0.012	0.002 ^	1	2	0
Diflubenzuron	709	1	0.1	0.015 ^	0.002 ^	0	1	0
Diphenylamine (DPA)	709	2	0.3	0.003 - 0.010	0.002 ^	2	0	0
Imidacloprid	709	7	1	0.004 - 0.39	0.003 ^	0	7	0
Tetrahydrophthalimide (THPI) ⁵	709	1	0.1	0.024 ^	0.010 ^	1	0	0
2 Cabbage (6 pesticides)								
Atrazine	707	4	0.6	0.005 - 0.011	0.005 ^	4	0	0
Omethoate	707	1	0.1	0.010 ^	0.010 ^	1	0	0
Oxamyl	707	1	0.1	0.060 ^	0.010 ^	1	0	0
Pronamide	707	1	0.1	0.010 ^	0.005 ^	1	0	0
Propamocarb	707	1	0.1	0.021 ^	0.010 ^	1	0	0
Tebuconazole	707	7	1	0.007 - 0.20	0.005 ^	7	0	0
3 Cilantro (26 pesticides)								
Ametoctradin	177	7	4	0.002 - 0.30	0.001 ^	6	1	0
Carbaryl	158	2	1.3	0.017 - 0.026	0.003 ^	2	0	0
Carbendazim (MBC) ⁶	177	2	1.1	0.002 - 0.040	0.001 ^	0	2	0
Carbofuran	177	1	0.6	0.007 ^	0.003 ^	0	1	0
Chlorpropham	177	7	4	0.002 ^	0.001 ^	5	2	0
Diazinon	177	11	6.2	0.002 - 0.021	0.001 ^	9	2	0
Difenoconazole	177	2	1.1	0.002 ^	0.001 ^	2	0	0
Dimethoate (Parent) ⁸	177	1	0.6	0.006 ^	0.001 ^	0	1	0
Omethoate	177	1	0.6	0.004 ^	0.002 ^	0	1	0
EPTC	177	7	4	0.002 - 0.005	0.001 ^	4	3	0
Ethoprop	177	2	1.1	0.005 - 0.008	0.003 ^	0	2	0
Fluoxastrobin	177	2	1.1	0.013 - 0.015	0.001 - 0.003	1	1	0
Iprodione	177	1	0.6	0.41 ^	0.009 ^	1	0	0
Methomyl	177	1	0.6	0.004 ^	0.002 ^	1	0	0
Metribuzin	177	2	1.1	0.003 ^	0.002 ^	0	2	0
Oxyfluorfen	177	11	6.2	0.002 - 0.005	0.001 ^	11	0	0
Pendimethalin	177	32	18.1	0.002 - 0.010	0.001 ^	28	3	1
Permethrin (parent) ⁹								
Permethrin cis	177	22	12.4	0.002 - 0.13	0.001 ^	19	3	0
Permethrin trans	177	22	12.4	0.002 - 0.17	0.001 ^	18	4	0
Profenofos	177	1	0.6	0.017 ^	0.003 ^	0	1	0
Pronamide	177	21	11.9	0.002 - 0.007	0.001 ^	21	0	0
Pyrimethanil	177	3	1.7	0.002 - 0.007	0.001 ^	2	1	0
Quintozone (PCNB) ¹⁰	177	23	13	0.002 - 0.006	0.001 ^	17	6	0
Pentachloroaniline (PCA)	177	17	9.6	0.002 - 0.003	0.001 ^	12	5	0
Tebuconazole	177	6	3.4	0.004 - 2.0	0.003 ^	4	2	0
Terbacil	177	1	0.6	0.005 ^	0.003 ^	1	0	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
Tetraconazole	139	1	0.7	0.007 ^	0.001 ^	1	0	0
Trifluralin	177	7	4	0.002 - 0.016	0.001 ^	7	0	0
4 Cranberries, Canned (9 pesticides)								
Bensulide oxygen analog	379	1	0.3	0.003 ^	0.002 ^	1	0	0
Diflubenzuron	379	1	0.3	0.020 ^	0.005 ^	1	0	0
Dimethomorph	379	2	0.5	0.021 - 0.25	0.020 ^	2	0	0
Flutriafol	379	2	0.5	0.003 - 0.026	0.002 ^	2	0	0
Imiprothrin	379	1	0.3	0.083 ^	0.050 ^	1	0	0
Ipconazole	379	1	0.3	0.055 ^	0.010 ^	1	0	0
Linuron	379	1	0.3	0.018 ^	0.010 ^	1	0	0
Terbufos sulfoxide	379	1	0.3	0.002 ^	0.002 ^	1	0	0
Triticonazole	379	1	0.3	0.029 ^	0.005 ^	1	0	0
5 Green Onions (4 pesticides)								
Fenbuconazole	707	3	0.4	0.010 - 0.012	0.005 ^	0	3	0
Fipronil	707	1	0.1	0.015 ^	0.005 ^	1	0	0
Permethrin Total	707	5	0.7	0.007 - 0.58	0.005 ^	1	4	0
Propamocarb	707	3	0.4	0.024 - 0.20	0.010 ^	2	1	0
6 Kale (3 pesticides)								
Carbendazim (MBC) ⁶	707	1	0.1	2.9 ^	0.015 ^	1	0	0
Fenpropathrin	707	4	0.6	0.003 - 0.021	0.002 ^	4	0	0
Permethrin Total	707	25	3.5	0.008 - 3.1	0.005 ^	25	0	0
7 Kiwi Fruit (11 pesticides)								
Boscalid	530	2	0.4	0.063 - 0.17	0.015 ^	0	2	0
Buprofezin	530	3	0.6	0.001 - 0.003	0.001 ^	1	2	0
Chlorpropham	530	1	0.2	0.026 ^	0.020 ^	0	1	0
Myclobutanil	530	3	0.6	0.021 - 0.043	0.001 ^	3	0	0
Pyraclostrobin	530	1	0.2	0.054 ^	0.005 ^	0	1	0
Pyrimethanil	530	6	1.1	0.005 - 0.015	0.005 ^	0	6	0
Spirodiclofen	530	1	0.2	0.013 ^	0.010 ^	0	1	0
Tebuconazole	530	6	1.1	0.026 - 0.90	0.015 ^	0	6	0
Thiabendazole	530	4	0.8	0.007 - 0.030	0.005 ^	0	4	0
Thiacloprid	530	2	0.4	0.006 - 0.054	0.005 ^	0	2	0
Trifloxystrobin	530	2	0.4	0.013 - 0.014	0.005 ^	0	2	0
8 Mangoes (6 pesticides)								
Carbendazim (MBC) ⁶	532	27	5.1	0.001 - 0.067	0.001 - 0.010	2	25	0
Chlorpropham	532	23	4.3	0.001 - 0.012	0.001 - 0.005	0	23	0
Dicloran	532	1	0.2	0.004 ^	0.001 - 0.010	0	1	0
Dimethoate (Parent) ⁸	532	2	0.4	0.005 - 0.010	0.001 - 0.002	0	2	0
Omethoate	532	5	0.9	0.002 - 0.036	0.001 - 0.015	0	5	0
Diuron	532	1	0.2	0.035 ^	0.010 ^	0	1	0
Pirimiphos methyl	271	1	0.4	0.001 ^	0.001 ^	0	1	0
9 Olives, Canned (7 pesticides)								
Carbendazim (MBC) ⁶	569	2	0.4	0.001 - 0.002	0.001 ^	2	0	0
Dicofol Total	569	1	0.2	0.003 ^	0.003 ^	1	0	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
Fluridone	569	3	0.5	0.001 ^	0.001 ^	3	0	0
Permethrin Total (Parent) ⁹	378	4	1.1	0.006 - 0.008	0.005 ^	4	0	0
Permethrin cis	191	1	0.5	0.004 ^	0.003 ^	1	0	0
Permethrin trans	191	4	2.1	0.004 - 0.009	0.003 ^	4	0	0
Propanil	569	1	0.2	0.002 ^	0.001 ^	1	0	0
Propargite	569	5	0.9	0.001 - 0.003	0.001 ^	5	0	0
Tebuconazole	569	6	1.1	0.006 - 0.067	0.003 ^	6	0	0
10 Plums, Dried / Prunes (3 pesticides)								
Diphenylamine (DPA)	536	40	7.5	0.002 - 0.007	0.002 ^	33	6	1
Pirimiphos methyl	567	2	0.4	0.001 - 0.006	0.001 ^	1	1	0
Thiabendazole	567	8	1.4	0.002 - 0.003	0.002 ^	8	0	0
11 Raisins (8 pesticides)								
Chlorpropham	756	8	1.1	0.002 - 0.007	0.001 ^	7	1	0
Diflubenzuron	756	1	0.1	0.034 ^	0.001 - 0.003	1	0	0
Diphenylamine (DPA)	756	1	0.1	0.005 ^	0.003 ^	1	0	0
Penthiopyrad	756	1	0.1	0.005 ^	0.001 ^	1	0	0
Permethrin (parent) ⁹								
Permethrin cis	756	1	0.1	0.002 ^	0.001 - 0.003	1	0	0
Permethrin trans	756	2	0.3	0.002 ^	0.001 - 0.004	1	1	0
Phosalone	756	1	0.1	0.010 ^	0.002 ^	0	1	0
Profenofos	756	2	0.3	0.002 - 0.009	0.001 - 0.003	0	2	0
Thiabendazole	756	1	0.1	0.003 ^	0.001 ^	1	0	0
12 Rice (16 pesticides)								
2,6-DIPN	189	6	3.2	0.002 - 0.013	0.001 - 0.005	1	5	0
Carbendazim (MBC) ⁶	189	8	4.2	0.001 - 0.030	0.001 ^	2	6	0
Chlorpropham	189	1	0.5	0.003 ^	0.001 ^	1	0	0
Diphenylamine (DPA)	189	2	1.1	0.001 - 0.002	0.001 ^	2	0	0
Fenobucarb (BPMC)	189	2	1.1	0.003 - 0.005	0.003 ^	1	1	0
Fluopyram	189	1	0.5	0.002 ^	0.001 ^	0	1	0
Flutriafol	189	1	0.5	0.001 ^	0.001 ^	0	1	0
Hexaconazole	189	1	0.5	0.005 ^	0.005 ^	0	1	0
Iprobenfos (IBP)	189	1	0.5	0.001 ^	0.001 ^	0	1	0
Isoprothiolane	189	11	5.8	0.002 - 0.19	0.001 ^	4	7	0
Methoxychlor p,p'	189	2	1.1	0.001 ^	0.001 ^	2	0	0
Phorate sulfoxide	189	2	1.1	0.001 - 0.003	0.001 ^	0	2	0
Profenofos	189	1	0.5	0.002 ^	0.001 ^	1	0	0
Tebuconazole	189	14	7.4	0.003 - 0.035	0.003 ^	2	12	0
Thiacloprid	189	1	0.5	0.002 ^	0.001 ^	0	1	0
Triazophos	189	6	3.2	0.002 - 0.013	0.001 ^	2	4	0
13 Snap Peas (5 pesticides)								
Buprofezin	703	2	0.3	0.002 - 0.003	0.001 ^	0	2	0
Carbendazim (MBC) ⁶	703	43	6.1	0.025 - 0.88	0.015 ^	2	41	0
DCPA	703	59	8.4	0.002 - 0.011	0.001 ^	57	2	0
Permethrin Total	701	10	1.4	0.008 - 0.11	0.005 ^	1	9	0
Tebuconazole	703	99	14.1	0.008 - 0.29	0.005 ^	7	92	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.
14 Spinach, Frozen (14 pesticides)								
DCPA	188	13	6.9	0.001 - 0.003	0.001 - 0.005	13	0	0
Difenoconazole	188	3	1.6	0.010 - 0.035	0.001 - 0.002	3	0	0
Dimethoate (Parent) ⁸	188	2	1.1	0.002 - 0.003	0.001 - 0.002	1	1	0
Omethoate	188	1	0.5	0.004 ^	0.001 - 0.015	0	1	0
Diphenylamine (DPA)	102	1	1	0.002 ^	0.001 ^	1	0	0
Etoxazole	188	2	1.1	0.002 - 0.004	0.001 ^	2	0	0
Iprodione	188	1	0.5	0.008 ^	0.005 - 0.075	1	0	0
Linuron	188	10	5.3	0.003 - 0.13	0.003 - 0.010	9	1	0
Oxyfluorfen	102	1	1	0.001 ^	0.001 ^	0	1	0
Pendimethalin	188	19	10.1	0.003 - 0.011	0.003 - 0.005	17	2	0
Prometryn	102	2	2	0.001 - 0.007	0.001 ^	2	0	0
Propamocarb	102	6	5.9	0.001 - 0.045	0.001 ^	3	3	0
Propiconazole	188	1	0.5	0.024 ^	0.001 - 0.005	1	0	0
Quinoxifen	188	4	2.1	0.001 - 0.002	0.001 ^	4	0	0
Quintozene (PCNB) (Parent)	188	7	3.7	0.001 - 0.002	0.001 - 0.005	7	0	0
Pentachloroaniline (PCA)	188	1	0.5	0.001 ^	0.001 - 0.005	0	1	0
15 Strawberries, Frozen (4 pesticides)								
Procymidone	189	1	0.5	0.24 ^	0.010 ^	0	1	0
Pronamide	189	1	0.5	0.002 ^	0.002 ^	1	0	0
Propamocarb hydrochloride	189	1	0.5	0.022 ^	0.002 ^	0	1	0
Tebuconazole	189	1	0.5	0.011 ^	0.010 ^	1	0	0
16 Wheat Flour (5 pesticides)								
Chlorpropham	758	6	0.8	0.001 - 0.003	0.001 ^	6	0	0
Methoxychlor p,p'	758	2	0.3	0.002 ^	0.001 ^	2	0	0
Pentachlorobenzene (PCB)	758	5	0.7	0.002 - 0.005	0.001 ^	5	0	0
Permethrin (parent) ⁹								
Permethrin cis	189	1	0.5	0.010 ^	0.003 ^	1	0	0
Permethrin trans	189	1	0.5	0.029 ^	0.003 ^	1	0	0
Pirimiphos methyl	758	3	0.4	0.002 - 0.009	0.001 ^	3	0	0

NOTES

- 1 One asparagus sample had tolerance exceeders for both Chlorfenapyr and Cypermethrin.
- 2 Includes cyhalothrin lambda plus R157836 epimer.
- 3 Deltamethrin includes parent Tralomethrin.
- 4 One snap pea sample had tolerance exceeders for both Abamectin and Deltamethrin.
- 5 Tetrahydrophthalimide (THPI) is a metabolite of Captafol and Captan.
- 6 Carbendazim (MBC) is a metabolite of Benomyl and Thiophanate methyl.
- 7 Two asparagus samples contained both Carbofuran and its 3-Hydroxycarbofuran metabolite.
- 8 One cilantro sample, two mango samples, and one frozen spinach sample contained both Dimethoate and its Omethoate metabolite.
- 9 Twenty cilantro samples, one olive sample, one raisin sample, and one wheat flour sample contained both the cis and trans permethrin isomers.
- 10 Eight cilantro samples contained both Quintozene and its Pentachloroaniline metabolite.

Note:

For those pesticide/commodity pairs where the minimum detected value is less than the limit of quantitation (three times the limit of detection), the reported values are estimates. In a few cases, this may apply to the maximum detected value.

PESTICIDE DATA PROGRAM

Annual Summary, Calendar Year 2018

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