

# Pesticide Data Program

Annual Summary, Calendar Year 2009

# United States Department of Agriculture

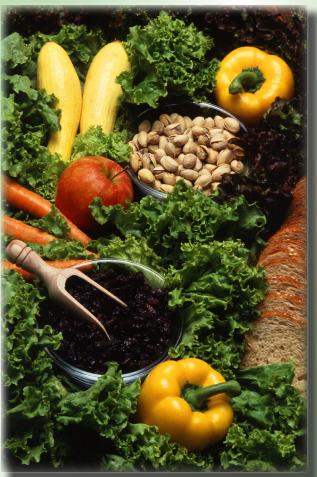
Agricultural Marketing Service

Science and Technology Programs









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



May 2011

## To the Reader:

I am pleased to present the Pesticide Data Program's (PDP) 19th Annual Summary for calendar year 2009. The U.S. Department of Agriculture implemented the PDP in 1991 to test food commodities for pesticide residues. The data produced by the PDP are used to estimate consumer dietary exposure to pesticides and the relationship of those exposures to science-based standards of safety. This report shows that overall pesticide residues found on foods tested are at levels below the tolerances set by the U.S. Environmental Protection Agency (EPA).

Using a rigorous statistical approach to sampling along with the most current laboratory methods, the PDP tests a wide variety of domestic and imported foods. Foods tested include fresh and processed fruit and vegetables, meat and poultry, grains, catfish, rice, specialty products, and water.

The 1996 Food Quality Protection Act (FQPA) directs the Secretary of Agriculture to collect pesticide residue data on foods that are highly consumed, particularly by infants and children. This law also established a strict health-based standard for a "reasonable certainty of no harm" for pesticide residues in food to ensure consumer protection from unacceptable pesticide exposure. The EPA uses the PDP data as a critical component for dietary assessments of pesticide exposure, a critical step to verify that all sources of exposure to pesticides meet the safety standards set by the 1996 FQPA.

The PDP is a voluntary program and is not designed for enforcement of EPA tolerances. However, we inform the U.S. Food and Drug Administration if residues detected exceed the EPA tolerance or have no EPA tolerance established. In 2009, residues exceeding the tolerance were detected in 0.3 percent of the samples tested, and residues with no established tolerance were found in 2.7 percent of the samples.

The PDP works with Cooperating State agencies that are responsible for sample collection and analysis. Twelve States participated in the program during 2009: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, Ohio, Texas, Washington, and Wisconsin. These States represent all regions of the country and more than half of the U.S. population.

For more information please visit our website at www.ams.usda.gov or the EPA at http://www.epa.gov/pesticides/food.

Sincerely,

Rayne Pegg Administrator

Rayne Pegg

# What Consumers Should Know

- Consumers should always rinse fruits and vegetables in water.
- U.S. Department of Agriculture (USDA) encourages the consumption of fruits and vegetables in every meal as part of a healthy diet.
- Before a company can sell or distribute any pesticide in the United States of America, the U.S. Environmental Protection Agency (EPA) must review studies on the pesticide to determine that it will not pose unreasonable risks to human health or the environment. Once EPA has made that determination, it will license or register that pesticide for use in strict accordance with label directions.
- EPA regulates pesticide use under two major federal statutes: the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) of 1947 which regulates pesticide registrations in the U.S., and the Food, Drug and Cosmetic Act (FFDCA) of 1938 under which EPA establishes tolerances (maximum legally permissible levels) for pesticide residues in food. The Food Quality Protection Act (FQPA) of 1996 amended these two pesticide laws to mandate a single, health-based standard for all pesticides in all foods. FQPA provides stricter safety standards than FIFRA and FFDCA, especially for infants and children and requires periodic re-evaluation of pesticide registrations and tolerances to ensure that the scientific data supporting pesticide registrations will remain up to date in the future. The Pesticide Data Program (PDP) provides data for the periodic re-evaluation of food tolerances.
- If the pesticide is used on food crops, EPA sets a tolerance or maximum residue level of the pesticide that can remain in or on foods. In setting the tolerance, EPA is required to make a safety finding for the pesticide accounting for all possible routes of exposure (through food, water and in home environments).
- In evaluating consumer exposure to pesticides through the diet, EPA uses all
  available information provided by company registrants, PDP and others to verify that
  tolerances meet the safety standards set by the FQPA of 1996.
- There are many pesticides available for use on the same crop; however, not all
  crops are treated with these pesticides and pesticide treatments vary according to
  crop geographical location, time of year, climatic conditions, and pest and disease
  pressures. These differences are captured by PDP data which reflect actual
  residues present in food grown in various regions of the U.S. and overseas.
- PDP data are essential in supporting efforts by the USDA and EPA to assess the American consumer's dietary exposure to pesticide residues, as directed by the FQPA. PDP concentrates its efforts mainly on foods most often consumed by infants and children.

- This report shows that overall pesticide residues found on foods tested are at levels below the tolerances established by EPA.
- The PDP laboratory methods used are geared to detect the smallest possible levels
  of pesticide residues, even when those levels are well below the safety margins
  (tolerances) established by EPA. Prior to testing, PDP analysts washed samples
  for 10 seconds with gently running cold water as a consumer would do at home; no
  chemicals, soap or any special wash was used.
- PDP informs the U.S. Food and Drug Administration (FDA) if residues detected exceed the EPA tolerance or have no EPA tolerance established. In 2009, residues exceeding the tolerance were detected in 0.3 percent of all samples tested and residues with no established tolerance were found in 2.7 percent of the samples.
- The report shows that none of the residue detections in the finished water samples exceeded established EPA Maximum Contaminant Levels, Health Advisory levels, or established Freshwater Aquatic Organism criteria.

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# Acknowledgements

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

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

## **Program Administration**

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

Deputy Administrator Science and Technology Programs Robert L. Epstein (202) 720-5231, Facsimile (202) 720-6496

Monitoring Programs Office 8609 Sudley Rd., Suite 206 Manassas, VA 20110 Director: Martha Lamont (703) 330-2300 x117, Facsimile (703) 369-0678

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

#### **Electronic-mail Address:**

amsmpo.data@ams.usda.gov

#### Web Site:

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

# **Participating State Agencies**

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

## **Participating Laboratories**

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

Colorado Department of Agriculture Inspection & Consumer Services Division Laboratory Section 2331 West 31st Ave. Denver, CO 80211-3859

Florida Department of Agriculture and Consumer Services Chemical Residue Laboratory Building #3 3125 Conner Blvd. Tallahassee, FL 32399-1650 Michigan Department of Agriculture Laboratory Division 1615 South Harrison Rd. East Lansing, MI 48823-5224

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

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

New York Department of Agriculture And Markets Food Laboratory 1220 Washington Ave. State Office Campus, Bldg. 7 Albany, NY 12235

Ohio Department of Agriculture Consumer Analytical Laboratory 8995 East Main St. Reynoldsburg, OH 43068 Texas Department of Agriculture Pesticide Laboratory 1500 Research Parkway, Ste. B100 College Station, TX 77845

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

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

United States Environmental Protection Agency Analytical Chemistry Laboratory 701 Mapes Road Fort Meade, MD 20755-5350

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

# **Executive Summary**

In 1991, the U.S. Department of Agriculture (USDA), Agricultural Marketing Service (AMS) was charged with designing and implementing the Pesticide Data Program (PDP) to collect data on pesticide residues in food. PDP provides high-quality data on residues in food, particularly foods most likely consumed by infants and children. This 19th Pesticide Data Program Summary presents results for samples collected in 2009.

This information is provided to the U.S. Environmental Protection Agency (EPA). Before a company can sell or distribute any pesticide in the United States of America, EPA must review studies on the pesticide to determine that it will not pose unreasonable risks to human health or the environment. Once EPA has made that determination, it will license or register that pesticide for use in strict accordance with label directions

Before allowing a pesticide to be used on a food commodity, EPA sets limits on how much of a pesticide may be used on food during growing and processing, and how much can remain on the food you buy. Government inspectors monitor food in interstate commerce to ensure that these limits are not exceeded. EPA also sets standards to protect workers from exposure to pesticides on the job.

AMS, through its Monitoring Programs Office (MPO), is responsible for the administration, planning and coordination of day-to-day PDP operations. MPO meets regularly with EPA and other government agencies to establish program priorities and direction. Sampling and/or testing program operations are carried out with the support of 12 States: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, Ohio, Texas, Washington, and Wisconsin. These States have a prominent role in program planning and policy setting, particularly policies relating to quality assurance.

In 2009, program support for sampling of beef also was provided by USDA's Food Safety and Inspection Service. Sampling and testing of drinking water was conducted with personnel from various public

utilities. State health technicians and homeowners provided sampling for groundwater. Testing also was conducted by USDA's AMS National Science Laboratory, USDA's Grain Inspection, Packers and Stockyards Administration Laboratory, and EPA's Analytical Chemistry Laboratory.

PDP commodity sampling is based on a rigorous statistical design that ensures the data are reliable for use in exposure assessments and can be used to draw various conclusions about the Nation's food supply. The pesticides and commodities to be included each year in the sampling are selected based on EPA data needs and take into account the types and amounts of food consumed by infants and children. The number of samples collected by the States is apportioned according to that State's population. Samples are randomly chosen close to the time and point of consumption (i.e., distribution centers rather than at farm gate) and reflect what is typically available to the consumer throughout the year. Samples are selected without regard to country of origin, variety, or organic labeling. The monthly sampling rate is 62 samples per commodity, except for highly seasonal commodities. For seasonal commodities, sampling rates are adjusted to reflect market availability. Sampling rates for beef are based on production.

Fresh and processed fruit and vegetables accounted for 81.5 percent of the total samples collected in 2009. Other samples collected included water samples, 6.7 percent; beef, 4.4 percent; catfish, 4.1 percent; and rice, 3.3 percent; fresh and processed fruit and vegetables tested include: apples, asparagus, canned beans, cilantro, cucumbers, grapes, green onions, lettuce (organic), oranges, pears, potatoes, spinach, strawberries, sweet corn (fresh on-the-cob/frozen), sweet potatoes and tomato paste. Approximately 79 percent of samples were from U.S. sources, 20 percent were imports and 1 percent was of mixed or of unknown origin.

Because PDP data are mainly used for risk assessments, PDP laboratory methods are geared to detect the smallest possible levels of pesticide residues, even when those levels are well below

the safety margins (tolerances) established by EPA. Prior to testing, PDP analysts washed samples for 10 seconds with gently running cold water as a consumer would do; no chemicals, soap or any special wash was used. Results for more than 1.8 million analyses were reported by the laboratories in 2009, too numerous to be included in their entirety in this summary. The PDP database file for 2009, and annual summaries and database files for previous years, are available on the PDP Web site at http://www.ams.usda.gov/pdp or by contacting MPO.

PDP is a voluntary program and is not designed for enforcement of tolerances. However, PDP informs the U.S. Food and Drug Administration if residues detected exceed the EPA tolerance or have no EPA tolerance established. In 2009, residues exceeding the established tolerance were detected in 0.3 percent of the samples tested, and residues with no established tolerance were found in 2.7 percent of the samples. Appendices B through G provide a distribution of residues by pesticide for the commodities tested. More information on results is provided in the Sample Results and Discussion section of the summary.

PDP laboratories also test foods for low levels of environmental contaminants that are no longer used in the U.S., but due to their persistence in the environment, particularly in soil, can be taken up by plants. PDP tracks these contaminants and provides the data to the Codex Alimentarius Commission.

In 2009, 612 (treated and untreated) drinking water samples were collected at water treatment facilities in 11 States and 278 groundwater samples were collected at farm wells, school/daycare facilities and private residence wells located in 16 States. Low levels of detectable residues, measured in parts per trillion, were detected in both drinking water and groundwater. The majority of pesticides, metabolites, and isomers included in the PDP testing profiles were not detected. None of the detections in the finished water samples exceeded established EPA Maximum Contaminant Levels, Health Advisory levels, or established Freshwater Aquatic Organism criteria.

PDP continually strives to improve methods for collection, testing, and reporting data. These data are freely available to EPA and other Federal and State agencies charged with regulating and setting policies on the use of pesticides and to all stakeholders by hard copy, Internet, or custom reports generated by MPO. Additional copies of the PDP Annual Summary may be obtained by calling MPO at (703) 330-2300 or by mailing the form provided at the end of the Summary.

# Acronyms and Abbreviations

% C.V. Percent Coefficient of Variation

ACL Analytical Chemistry Laboratory

AL Action Level

AMS Agricultural Marketing Service

BQL Below Quantifiable Level

CDFA California Department of Food and Agriculture

EPA Environmental Protection Agency

ERS Economic Research Service

e-SIF Electronic-Sample Information Form

FAO Freshwater Aquatic Organism

FAPAS Food Analysis Performance Assessment Scheme

FAS Foreign Agricultural Service

FDA Food and Drug Administration

FQPA Food Quality Protection Act

FSIS Food Safety and Inspection Service

GC Gas Chromatography

GIPSA Grain Inspection, Packers and Stockyards Administration

GLP Good Laboratory Practices

HA Health Advisory

HCB Hexachlorobenzene

ISO International Organization for Standardization

LC Liquid Chromatography

LOD Limit of Detection

LOQ Limit of Quantitation

MCL Maximum Contaminant Level

MPO Monitoring Programs Office

MRM Multiresidue Method

MS Mass Spectrometry

NASS National Agricultural Statistics Service

NSL National Science Laboratory

OFPA Organic Foods Production Act

PDP Pesticide Data Program

ppb parts per billion

ppm parts per million

PT Proficiency Testing

QA Quality Assurance

QAO Quality Assurance Officer

QAU Quality Assurance Unit

QuEChERS Quick, Easy, Cheap, Effective, Rugged and Safe

QC Quality Control

RDE Remote Data Entry

SDWA Safe Drinking Water Act

SIF Sample Information Form

SOP Standard Operating Procedure

SPE Solid Phase Extraction

SSL Secure Sockets Layer

TPM Technical Program Manager

USDA United States Department of Agriculture

USGS United States Geological Survey

Pesticide Data Program—Annual Summary, Calendar Year 2009

# Pesticide Data Program (PDP) Annual Summary, Calendar Year 2009

This summary consists of the following sections: (I.) Introduction, (II.) Sampling Operations, (III.) Laboratory Operations, (IV.) Database Management, and (V.) Sample Results and Discussion

# I. Introduction

The Pesticide Data Program (PDP) was initiated in 1991 to collect data on pesticide residues in food and now has an important role in the implementation of the 1996 Food Quality Protection Act (FQPA). The law directs the Secretary of Agriculture to collect pesticide residue data on commodities most frequently consumed by infants and children. PDP data are used primarily by the U.S. Environmental Protection Agency (EPA) to assess dietary exposure during the review of the safety of existing pesticide tolerances (Maximum Residue Limits).

Because PDP collects data on food commodities primarily for exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. PDP samples are collected closer to the point of consumption and are prepared emulating consumer practices. Sampling is based on EPA data needs and does not impede commodity distribution. Laboratory operations are designed to achieve the lowest detectable levels rather than quick sample turnaround. As a dietary risk assessment support program, PDP focuses its pesticide testing on registered uses for the commodities in the program rather than screening for all potential illegal uses.

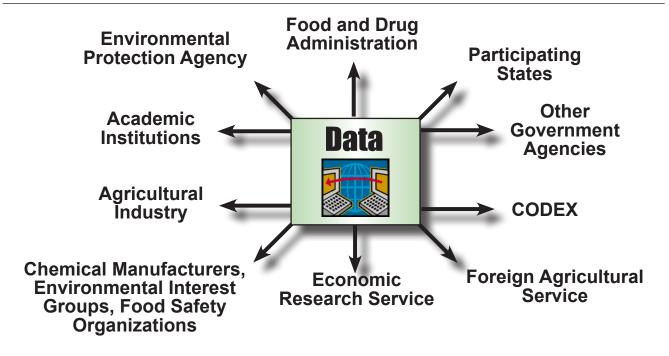
Figure 1(a) illustrates contributors to PDP program policy development and planning operations. Primary contributors to these activities include the participating States, EPA, U.S. Department of Agriculture's (USDA's) National Agricultural Service (NASS), and additional **Statistics** stakeholders including industry and grower groups. Figure 1(b) depicts PDP primary data users including EPA, the U.S. Food and Drug Administration (FDA), USDA's Economic Research Service (ERS) and Foreign Agricultural Service (FAS), participating States, academic institutions, chemical manufacturers, environmental interest groups, food safety organizations, and groups within the private sector representing food producers. Other Federal, State, and foreign government agencies and industry have used PDP data to promote the export of U.S. commodities to international markets. Additionally, the Codex Alimentarius Committee on Pesticides Residues recognizes PDP methodologies as official and validated methods for the determination of pesticide residues in foods.

In 2009, sampling services were provided by 10 States (California, Colorado, Florida, Maryland, Michigan, New York, Ohio, Texas, Washington, and Wisconsin) and the USDA's Food Safety and Inspection Service (FSIS). Sampling services for drinking water were provided by participating facility personnel at 13 individual sites in 11 States (Alabama, California, Georgia, Illinois (2 sites), Kansas, New York, North Carolina, North Dakota, Ohio, Texas, and Virginia (2 sites)). A voluntary groundwater survey was continued in 2009 with homeowners at 70 sites in agricultural areas in Florida (1), Minnesota (9), Nebraska (50), New York (2), South Dakota (3), Virginia (4) and Wisconsin (1) collecting potable well samples for analysis. In addition, a survey of schools and childcare facilities obtaining water from onsite wells was begun. In 2009, 113 schools/childcare facilities from 11 States (California, Georgia, Indiana, Iowa, Louisiana, Michigan, New York, Oklahoma, Pennsylvania, Texas and Virginia) were sampled and analyzed. In addition, 95 wells located within 300 feet of pesticide tank rinse/fill stations which were used as potable water supplies by field workers in the State of Florida were tested. Laboratory services were provided by the States of California, Colorado, Florida, Michigan, Minnesota, Montana, New York, Ohio, Texas, and Washington; the Agricultural Marketing Service (AMS) National Science Laboratory (NSL); the GIPSA Laboratory; and, the EPA Analytical Chemistry Laboratory (ACL). The AMS Monitoring Programs Office (MPO) 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



# (a) PDP Policy and Planning Contributions



# (b) PDP Data Users

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

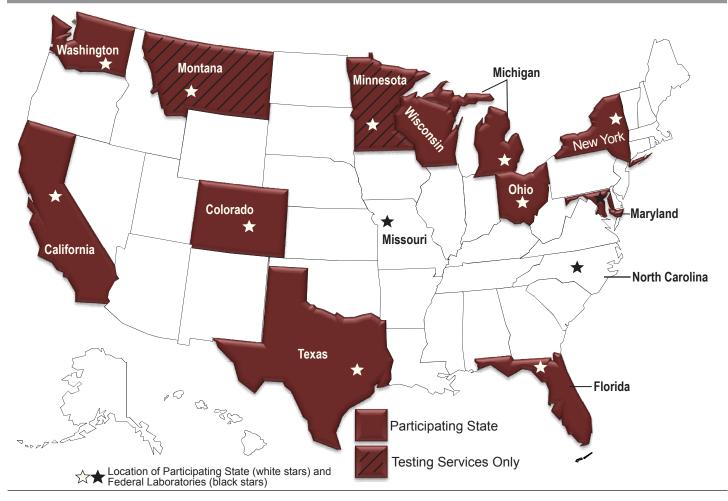


Figure 2. Program Participants. During 2009, AMS established cooperative agreements with 12 States to sample and/or test PDP commodities. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit and vegetables. State laboratories are responsible for analyzing fresh and processed fruit and vegetable samples and drinking water samples. The Federal AMS laboratory in Gastonia, North Carolina, analyzes meat, poultry, honey, and dairy products; the Federal laboratory in Kansas City, Missouri, analyzes whole and processed grain products; and, the Federal EPA laboratory in Fort Meade, Maryland, performs specialty analyses for selected crops.

population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit and vegetables. AMS works closely with EPA to select commodities and pesticides for testing and in the selection of drinking water and groundwater sites. The selected commodities represent the highest U.S. consumption, with an emphasis on foods consumed by infants and children. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2010.

Fruit and vegetable samples are collected at terminal markets and large chain store distribution centers from which food commodities are supplied to supermarkets and grocery stores. Sampling at these locations allows for residue measurements that

include pesticides applied during crop production and those applied after harvest (such as fungicides and growth regulators) and takes into account residue degradation while food commodities are in storage. Participation as a PDP sampling site is voluntary, which sets it apart from State and Federal enforcement programs. In 2009, approximately 600 sites granted access and provided information, including site volume data, to sample collectors. Voluntary cooperation is important to PDP and makes it possible to adjust sampling protocols in response to fluctuations in food distribution and production.

Beef samples are collected by trained USDA-FSIS inspectors. Treated and untreated drinking water samples are collected onsite by trained personnel

at selected water treatment facilities across the country. Groundwater samples are collected from private potable wells by homeowners and State health department technicians. Sites are selected based on geographic locale and proximity to agricultural areas.

Pesticides screened by PDP include those with current registered uses and compounds for which toxicity data and preliminary estimates of dietary exposure indicate the need for more extensive residue data. PDP also monitors pesticides for which EPA has modified use directions (i.e., reduced application rates or frequency) as part of risk management activities. The following appendices list the specific pesticides tested in the program: fruit and vegetables (Appendix B), rice (Appendix C), beef (Appendix D), catfish (Appendix E), potable groundwater (Appendix F), and municipal drinking water (Appendix G).

# **II. Sampling Operations**

# **♦** Background

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

In 2009, fruit, vegetables, rice, and catfish were randomly collected by trained State inspectors at terminal markets and large chain store distribution centers throughout the country. Surrogate or "proxy" sites (retail markets) are occasionally used to collect these samples when the commodity of interest is unavailable at a terminal market or distribution center. In these instances, the commodity is selected in the rear storage area of the retail facility so possible contamination by the consumer is eliminated and allows capture of sample information from product boxes. In 2009, 13.7 percent of fruit, vegetable, catfish, and rice samples were collected at proxy sites. The commodities most often collected at these facilities were canned beans, tomato paste, rice, and catfish.

Beef samples were collected from designated slaughter facilities by trained USDA FSIS inspectors. Potable groundwater samples were collected from private domestic wells by the well owners and State health department technicians; participation in the groundwater survey is voluntary, with site selections based on agricultural chemical usage in the watershed and geographic location. Treated and untreated drinking water samples were collected onsite by trained personnel at selected water treatment facilities across the country.

At all sampling locations, information is usually available about the identity and origin of the sample. Sample information is captured at the time of collection for inclusion in the PDP database. PDP sample origin data identify the State or country where the commodity was produced. A comparison of PDP sample origin data to State production and import data by USDA's NASS shows PDP sampling is representative of the U.S. food supply. PDP sampling operations are adjusted according to product availability. The number of fruit, vegetable, rice, and catfish samples collected in each participating State is determined by State population. The number and location of collected beef samples are determined by annual domestic production figures. The number and location of groundwater samples are determined based on geographic region, location in an agricultural area, and the willingness of the well owners to participate in the program. The quarterly collection schedule for all 2009 commodities is shown in Table 1.

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

PDP State sample collectors are trained to adhere to detailed program Standard Operating Procedures (SOPs) that provide criteria for site selection and specific instructions for sample selection, shipping and handling, and chain-of-custody. SOPs are updated as needed and serve as a technical reference in conducting program sampling reviews to ensure

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Apples					Dec-10
Asparagus					Jun-10
Beef, Adipose					May-09
Beef, Muscle					May-09
Cilantro					Sep-10
Cucumbers					Dec-10
Fish, Catfish					Jun-10
Garbanzo Beans, Canned					Mar-10
Grapes					Dec-10
Green Onions					Sep-09
Kidney Beans, Canned					Mar-09
Lettuce, Organic					Dec-10
Oranges					Dec-10
Pears					Dec-10
Pinto Beans, Canned			i T		Sep-09
Potatoes					Dec-10
Rice					Sep-09
Spinach					Dec-09
Strawberries					Dec-09
Sweet Corn, Fresh					Sep-10
Sweet Corn, Frozen					Sep-10
Sweet Potatoes					Sep-10
Tomato Paste					Dec-10
Water, Finished					Ongoing
Water, Ground					Ongoing
Water, Untreated					Ongoing

Table 1. PDP Commodity Collection Schedule for 2009. 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 2010).

program goals and objectives are met. SOPs for PDP sampling are available on the Internet at www. ams.usda.gov/pdp. On a quarterly basis, sample collectors are provided with commodity Fact Sheets and Quick Reference Guides that list specific collection details for individual commodities that have been added to the program.

Temperature-sensitive samples are packed in heavyduty, 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 heavyduty, well-cushioned containers. To preserve sample integrity, most samples are shipped the same day as collection by overnight delivery. Non-refrigerated processed commodities (canned beans, tomato paste, and rice) are often shipped by ground transportation to reduce shipping costs. Beef and catfish samples are collected in pesticide-free polyethylene bags, frozen overnight, and shipped by next-day delivery to the laboratory for analysis. Groundwater samples and raw intake and treated drinking water samples are collected in specially prepared bottles containing dechlorinating agents to halt potential compound degradation, packed with proper cushioning and cold packs, and shipped the same

day as collection to their respective laboratory by overnight delivery.

Electronic Sample Information Forms (e-SIFs) are used for chain-of-custody and to capture information needed to characterize the sample. Sample collectors use handheld or laptop computers in the field to record sample identification information such as: (1) State of sample collection, (2) collection date, (3) sampling site code, (4) commodity code, and (5) testing laboratory code. Information from these five data elements is combined to form a unique PDP identification number for each sample. Other available information about each sample is also recorded, such as collector name; the State or country of origin; product variety; production claims such as organic, post-harvest chemical applications; and grower, packer, and/or distributor locations. The e-SIFs are electronically mailed the same day as sample collection or, at the latest, by the next morning after collection to ensure that sample information is received at each laboratory by the time samples arrive for analysis. Refer to Section IV on Database Management for more information on the e-SIF system.

Participating State agencies compile and maintain lists of sampling sites. In 2009, approximately 600 sites granted access and provided information, including site volume data, to sample collectors. The States, in turn, provide AMS and NASS with annual volume information for commodities distributed at each site. This information is used to weight the site to determine the probability for sample selection. For example, a weight of 10 may be given to a site that distributes 100,000 pounds of produce annually and a weight of 1 is given to a site that distributes 10,000 pounds. The probability-proportionate-to-size method of site selection then results in the larger site being 10 times more likely to be selected for sampling than the smaller site

Participating States work with NASS to develop statistical procedures for site weighting and selection. States are also given the option to have NASS perform their quarterly site selection. The number of sampling sites and the volume of produce distributed by the sites vary greatly among States. Sampling plans that include sampling dates, sites

(primary and alternate), targeted commodities, and testing laboratories are prepared by each State on a quarterly basis. Collection of commodities is randomly assigned to weeks of the month, prior to selection of specific sampling dates within a week. Because sampling sites are selected for an entire quarter, States may assign the sites to particular months based on geographic location.

State population figures are used to assign the number of fruit, vegetable, and other specialty samples scheduled for collection each month. These population- and distribution-network-based numbers result in the following monthly collection assignments for each State: California, 14; Colorado, 2; Florida, 7; Maryland, 4; Michigan, 6; New York, 9; Ohio, 6; Texas, 8; Washington, 4; and Wisconsin, 2. The schedule results in a monthly target of 62 samples per commodity, or 744 samples per commodity per year. During the third and fourth quarters of 2009, the monthly collection assignments changed for California (13 samples) and Texas (9 samples).

The total number of samples collected in each State for each commodity is listed in Table 2. Figure 2 illustrates the participating collection States and the laboratories to which samples were shipped. The total number of samples per commodity and the percentage of each that were either domestic, imported, or of unknown origin is shown in Figure 3. The origin of some fresh commodities can vary greatly throughout the year. Graphic examples of this variation can be found in Figure 4 where differences in origin (domestic vs. import) are depicted by month for asparagus, cucumbers, and grapes. Fresh and processed fruit and vegetable, rice, and catfish samples originated from 45 States, 1 U.S. territory, and 22 foreign countries (refer to Appendix H). Beef, groundwater, and drinking water samples are excluded from Appendix H because they rely on differential sampling frames.

#### **♦** Fresh and Processed Commodities

Of all samples collected and analyzed in 2009, 81 percent (10,792 of 13,244) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were apples, asparagus, cilantro, cucumbers, grapes,

State	AP	AS	СВ	CL	CU	GO	GR	LT	OG	PE	РО	SP	ST	sw	Total Fresh
California	162	162	161	39	162	123	162	84	162	162	162	162	162	162	2,027
Colorado	24	24	18	6	24	18	24	12	24	24	24	24	24	24	294
Florida	84	84	83	21	84	49	84	84	84	84	84	84	84	84	1,056
Maryland	48	48	40	10	48	36	48	23	48	47	48	48	48	48	588
Michigan	72	72	58	18	72	54	72	36	72	72	72	72	72	71	885
New York	108	108	98	27	108	81	108	60	108	108	108	108	108	108	1,346
Ohio	72	72	54	18	72	54	72	36	72	72	72	72	72	72	882
Texas	102	102	99	27	102	75	102	50	102	102	102	102	102	102	1,271
Washington	48	48	44	12	48	36	48	25	48	48	48	48	48	44	593
Wisconsin	24	24	13	6	24	18	24	12	24	24	24	24	24	24	289
TOTAL	744	744	668	184	744	558	744	387	744	743	744	744	744	739	9,231

State	cs	КВ	NB	TP	ZB	Total Processed	Total Fresh & Proccessed F&V	Fish FC	Grain RI
California	1	42	81	161	39	324	2,351	103	95
Colorado	6	6	12	25	6	55	349	19	14
Florida	1	21	42	83	21	168	1,224	63	55
Maryland	7	12	24	46	12	101	689	35	28
Michigan	14	18	36	72	18	158	1,043	54	42
New York	10	27	54	108	27	226	1,572	80	63
Ohio	18	18	36	73	18	163	1,045	57	43
Texas	3	24	51	102	27	207	1,478	78	59
Washington	4	12	24	48	12	100	693	36	28
Wisconsin	11	6	12	24	6	59	348	18	8
TOTAL	75	186	372	742	186	1,561	10,792	543	435

Commodity Legend		
AP = Apples	GO = Green Onions	PO = Potatoes
AS = Asparagus	GR = Grapes	RI = Rice
CB = Sweet Corn, Fresh (on cob)	KB = Kidney Beans, Canned	SP = Spinach
CL = Cilantro	LT = Lettuce (Organic)	ST = Strawberries
CS = Sweet Corn, Frozen	NB = Pinto Beans, Canned	SW = Sweet Potatoes
CU = Cucumbers	OG = Oranges	TP = Tomato Paste
FC = Catfish	PE = Pears	ZB = Garbanzo Beans, Canned

Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. This table includes those commodities collected at terminal markets and distribution centers. This table does not show the beef, groundwater or finished drinking water samples collected. Those distributions can be found in Figures 5, 6, and 7 respectively.

# A. Fresh Fruit and Vegetable Samples Cilantro (184 Samples) Apples (744 Samples) Asparagus (744 Samples) Import 17.4% Domestic 16.1% Domestic 94.1% Import 5.5% Domestic 81.0% Import 83.1% Unknown 0.4% Unknown 1.6% Unknown 0.8% Grapes (744 Samples) Green Onions (558 Samples) Cucumbers (744 Samples) Domestic 16.5% Import 48.3% Import 53.5% Domestic 51.3% Import 82.1% Domestic 44.9% Unknown 1.6% Unknown 0.4% Unknown 1.4% Lettuce, Organic (387 Samples) Oranges (744 Samples) Pears (743 Samples) Import 15.3% Import 10.6% Domestic 82.2% Domestic 93.0% Import 6.3% Domestic 84.4% Mixed National 7.0% Unknown 0.7% Unknown 0.3% Unknown 0.2% Potatoes (744 Samples) Spinach (744 Samples) Strawberries (744 Samples) Import 1.2% Import 8.9% Domestic 95.7% Import 3.5% Domestic 98.4% Domestic 91.1% Unknown 0.4% Mixed National 0.4% Unknown 0.4% Sweet Corn, Fresh (668 Samples) Sweet Potatoes (739 Samples) Import 10.3% Domestic 98.9% Domestic 84.0% Unknown 1.1% Unknown 5.7%

# B. Processed Fruit and Vegetable Commodities

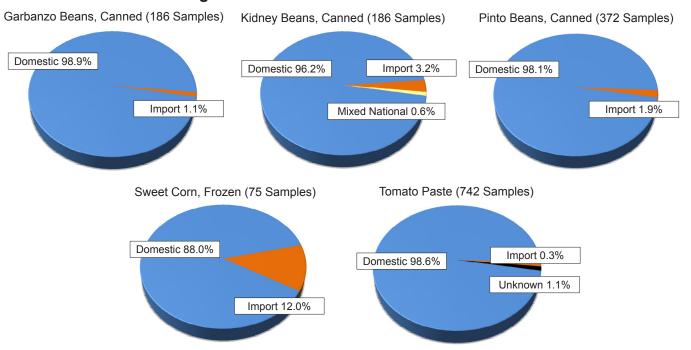


Figure 3. Commodity Origin. This figure depicts the proportion of commodity origin (domestic vs. import vs. unknown origin) for each fresh and processed fruit and vegetable product tested in 2009.

green onions, lettuce (organic), oranges, pears, potatoes, spinach, strawberries, sweet corn on-the-cob, and sweet potatoes. The processed commodities included canned beans (garbanzo, kidney, and pinto), frozen sweet corn, and tomato paste. All fresh fruit and vegetable samples weighed either 3 or 5 pounds with the exception of cilantro and organic lettuce samples that weighed 1 pound. Three pounds were collected for smaller, low-weight commodities such as asparagus and strawberries and 5 pounds were collected for larger, high-weight commodities such as apples and oranges. For processed samples, canned bean samples weighed 28 ounces; frozen sweet corn niblets weighed 3 pounds, and canned tomato paste weighed 16 ounces.

## **♦** Organic Lettuce

In 2009, PDP collected and analyzed 387 samples of organic lettuce. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. Samples included both 1-pound unbagged organic lettuce and prebagged organic lettuce. Analysis was performed by the Colorado Department of Agriculture laboratory. Results for organic lettuce are shown in Appendix B.

#### **♦** Rice

In 2009, PDP collected 435 samples of milled rice. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. Three-pound rice samples included short, medium, and long grain white rice, brown rice, basmati rice, jasmine rice, and texmati rice. Further processed rice types, such as Minute Rice® and Uncle Ben's Rice® were not included in the sampling scheme. Analysis was performed by the USDA Grain Inspection, Packers and Stockyards Administration (GIPSA) Laboratory in Kansas City, MO. Results for rice are shown in Appendix C.

#### **♦** Beef

Between January and May 2009, 584 beef samples were collected for PDP by trained FSIS inspectors. The inspectors collected samples from cows, heifers, and steers at designated slaughter facilities, separately bagged each tissue in pesticide-free polyethylene bags, labeled, and froze the samples overnight. Once frozen, the samples were packed with frozen cold packs in tamper-proof boxes and shipped by overnight delivery to the NSL in

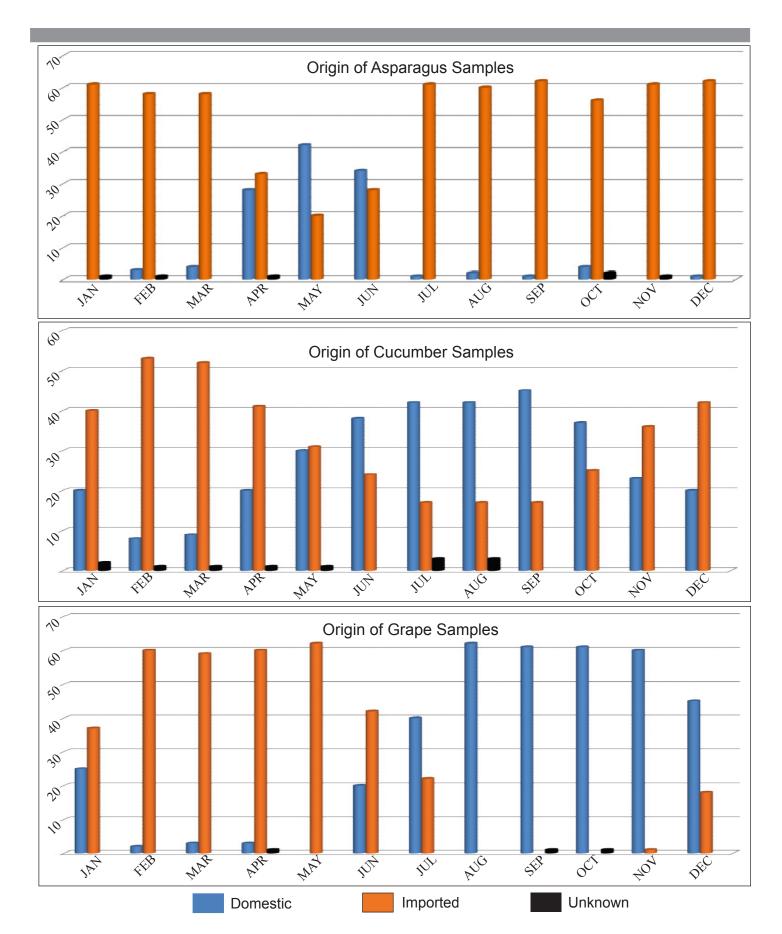


Figure 4. Origin of Selected Fresh Commodities: Asparagus, Cucumber and Grape Samples. Differences in origin (domestic vs. import) are illustrated by month. The targeted number of samples is 62 per month for each commodity.

Gastonia, NC, for analysis. FSIS used specially designed Unified Sampling Forms that contain all required PDP sample information. The forms were completed onsite and accompanied each sample during shipment. A sample was comprised of 1 pound of adipose and 1 pound of muscle from a single animal. A total of 292 adipose and 292 muscle samples were collected. Samples were taken from 47 slaughter facilities in 19 States at rates according to throughput volume (refer to Figure 5 for distribution of samples in each State). The cattle were raised in 29 States and Canada. Results for beef are shown in Appendix D.

#### **♦** Catfish

In 2009, PDP continued the catfish survey which began in 2008. Data were needed to examine levels of pesticides present in catfish, whether from environmental contaminants or from pesticides used in aquaculture. Current, comprehensive data on pesticide residues on fish available to the U.S. consumer is largely unavailable. Sampling was designed to capture domestic and imported products, including farm-raised catfish. Catfish represents the largest sector in the domestic aquaculture industry. The primary domestic production States in 2009 are, in

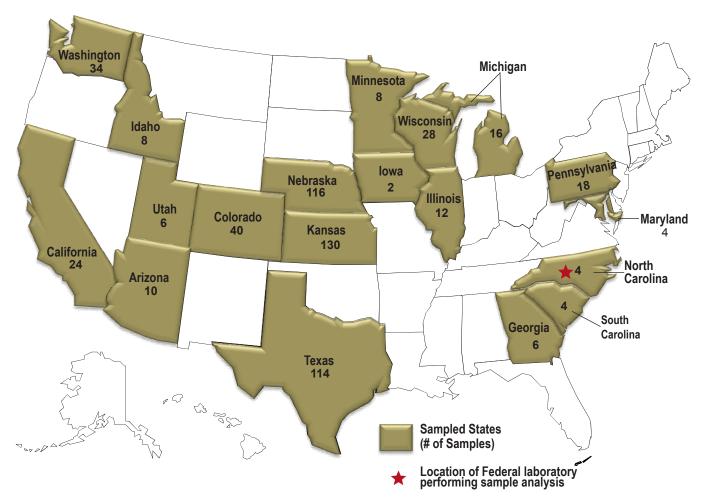


Figure 5. Location of Beef Sample Collection Sites. A total of 584 beef samples were collected including 292 adipose tissue samples and 292 muscle tissue samples from the same animal. All samples were approximately one pound. FSIS inspectors collected samples at 47 designated slaughter facilities in 19 States. The cattle were raised in 29 States and Canada. Residue testing for all samples was performed by the National Science Laboratory in Gastonia, NC.



order of production, Mississippi, Alabama, Arkansas, and Louisiana. The primary import countries are China and Vietnam. PDP sampled catfish available at designated sampling locations regardless of country of origin, in order to capture results for catfish consumed by the American public.

PDP collected and analyzed 543 catfish samples in 2009. Each sample consisted of 1 pound of fresh or frozen raw catfish. Proxy/retail sites provided 59.3 percent of catfish samples, while distribution centers provided 31.5 percent of samples, terminal markets 3.9 percent, and wholesale or specialty fish markets 5.3 percent. Whole catfish samples were not collected; rather, only fillets, nuggets, strips, or steaks were obtained for testing. Both bones-in and no bones were acceptable sample types. To ensure catfish samples arrived at the laboratory in acceptable condition, samples were first frozen overnight and then shipped the following day by overnight air with ample frozen cold packs and insulating materials surrounding all sample units. Analysis was performed by the NSL, Gastonia, NC.

Although naming conventions vary across States and regions of the United States and among countries, PDP sample collectors relied solely on the label for identification of catfish (fillets, nuggets, strips and steaks) regardless of the family, genus, or species names that may or may not have been listed on the product. Farm-raised or wild, and domestic or imported catfish were collected on a random, as available basis. The majority of samples were farmraised and of domestic origin. Approximately 80 percent of the samples were farm-raised, less than 1 percent was wild-caught, and the remainder of the samples had no available source information. Approximately 74 percent of the samples originated in the United States, 24 percent were imported, and 1 percent were of unknown origin. These collection percentages are consistent with the U.S. Department of Commerce and NASS data on domestic production figures for 2009. Distribution of residues in catfish may be found in Appendix E.

## **♦** Drinking Water

#### **Potable Groundwater from Domestic Wells**

Approximately 15 percent of the U.S. population obtains its domestic water from private wells. Many

of these wells are located in agricultural areas and may be susceptible to pesticides, so in dietary risk assessments, it is necessary to monitor these shallow groundwater wells to account for exposure for this population through water consumption.

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

In 2009, PDP performed three groundwater studies: one for wells used as drinking water sources for farm field workers; one for school/childcare facilities with onsite wells used for potable supplies; and one as a continuation of private domestic wells testing. The expense of testing for a large suite of pesticide residues at part-per-trillion levels is cost-prohibitive to most farmers, schools, and homeowners, as well as to county and State governments. PDP collaborated with these groups on sample collection and provided them with their individual sample results.

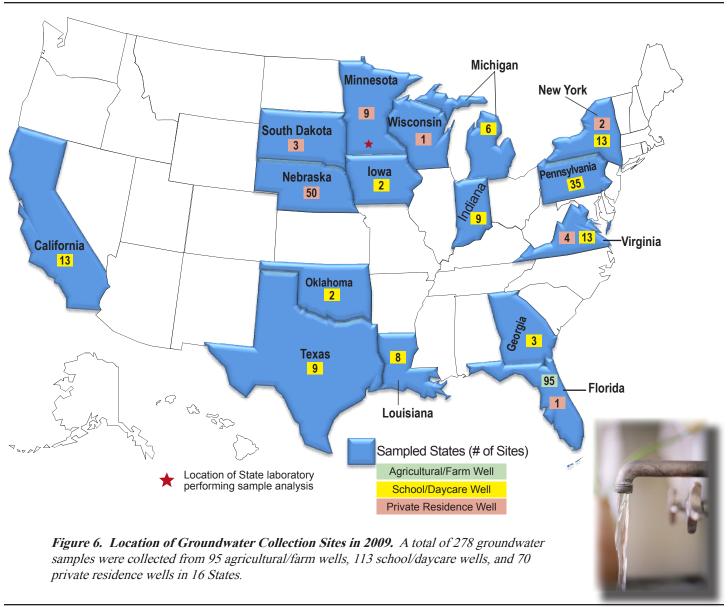
Agricultural farm field workers, because of their work environment, are a subpopulation with a higher potential of pesticide exposure. In many circumstances, a well with a water supply deemed potable is used for drinking water by these farm field workers. The 2009 farm field study was conducted in conjunction with the Florida Department of Health, which sampled wells in six Florida counties. The wells were known to be used as potable supplies for field workers and were within 300 feet of pesticide tank mix/rinse/fill sites. For this project, 95 wells were tested.

Schools and childcare facilities are often located on town perimeters due to lower land costs. Bringing utilities to these remote locations can be expensive; therefore, onsite wells are often used for water supplies. As children are most susceptible to pesticides during their growth and development years and spend a significant portion of their lives at these locations, it is critical to have adequate data to evaluate childrens potential exposure to pesticides through the consumption of water. A total of 113 school/childcare facility wells were sampled in 2009; this project is continuing in 2010.

PDP tested private residence wells, a continuation of a groundwater study that began in 2007. In 2009, PDP tested 70 wells in 7 States (see Figure 6). When pesticides are detected in groundwater, the source is not always the

immediate surface above, but can be where the water is entering, or recharging, the aquifer. Thus, if pesticides are being used in the recharge zone, they may be transported through the aquifer to the well. The transport times from recharge points (where surface water and precipitation enter the ground in route to the aquifer) to the wells can take a significant amount of time, from many days to years. During this time, microbial and chemical degradation of the pesticide can occur.

A total of 278 groundwater samples from wells used for potable water supplies located in agricultural regions (95 samples), schools/childcare facilities (113 samples), and private residences (70 samples) in 16 States were collected. Each well was sampled by the well owner, or in Florida, by State health department



technicians. Sampling was performed at the well head or kitchen faucet following morning showers to ensure that all water from the pressure tank and any storage tanks were used and that the water was fresh from the well and not stagnant. It is assumed that most households do not spray household pesticides around the kitchen faucet; therefore, the chance of contamination is minimal. Figure 6 shows the distribution of groundwater collection sites for the 2009 PDP testing program.

# **Municipal Drinking Water**

In 2001, PDP began testing municipal waters drawing from surface water sources since surface water is more vulnerable to pesticides than municipal waters that draw from groundwater sources. Most municipal systems drawing from groundwater draw from fairly deep (>200 foot) aquifers that are not affected by pesticides.

The sample collection sites are community water systems that draw water from surface water sources. Site selection was made in collaboration with EPA's Office of Pesticide Programs and Office of Water. All selected sites met the following criteria: (1) use of surface water as the primary source of water and (2) location in regions of heavy agriculture where known amounts of targeted pesticides of interest were applied. Water treatment method was not a part of the selection criteria.

Samples were collected bimonthly by trained water treatment facility personnel. Paired samples of the raw intake water (untreated) and disinfected and finished drinking water (treated) were collected for analysis. Treated water samples were collected after the untreated samples at a time interval consistent with the hydraulic residence. Hydraulic residence is the average time from entry into the treatment facility until distribution as treated water. Dechlorination and preservative chemicals were added to the samples at the time of collection. Samples were packed with frozen cold packs and shipped overnight to the testing laboratories.

Figure 7 shows the distribution of drinking water sites for the 2009 PDP testing program. Untreated and finished drinking water samples were collected from community water systems from 13 sites in 11

States - Alabama, California, Georgia, Illinois (2 sites), Kansas, New York, North Carolina, North Dakota, Ohio, Texas, and Virginia (2 sites). Each watershed reflects the local topography, watershed size, geomorphology, soil types, geology, land use, land management practices, crop varieties, pesticides applied, and application methods. Due to the complexities associated with water quality assessments, these data reflect only the unique characteristics of the watersheds from which the samples were obtained.

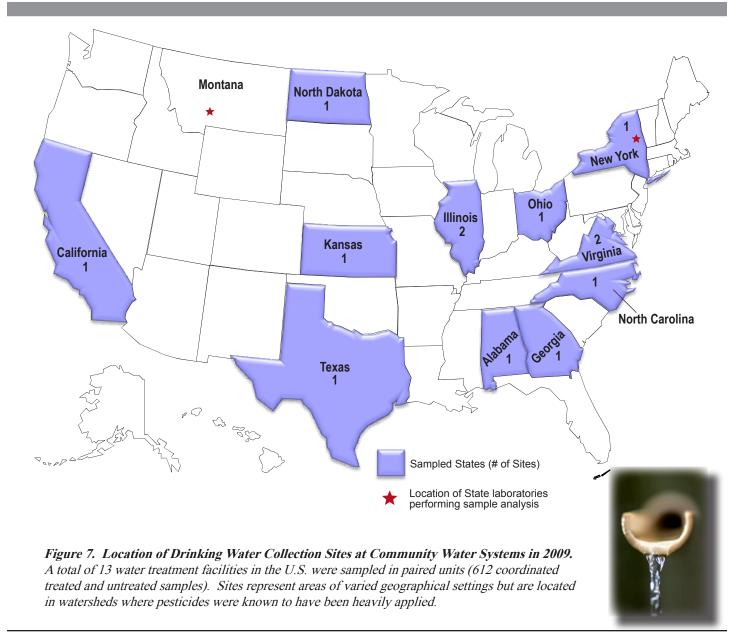
# **III. Laboratory Operations**

#### **♦** Overview

Thirteen laboratories (10 State and 3 Federal) performed analyses for PDP. These laboratories are equipped with instrumentation capable of detecting residues at very low levels. Laboratory staff members receive intensive training and must demonstrate analytical proficiency on an ongoing basis. Program scientists continually test new technologies and develop new techniques to improve the levels of detection. Major changes in methodology are evaluated and their soundness demonstrated and documented in accordance with PDP SOPs.

#### **♦** Fresh and Processed Commodities

Fruit and vegetable samples were tested for 309 parent pesticides, metabolites, degradates, and/ or isomers using Multiresidue Methods (MRMs). Upon arrival at the testing facility, samples of fresh commodities were visually examined for acceptability and discarded if determined to be inedible (decayed, extensively bruised, Except for oranges and bagged or spoiled). processed products, samples were washed under gently running cold water, emulating the practices of the average consumer to more closely represent actual exposure to residues. Samples were not cooked, bleached, or washed with detergents. Additionally, any inedible or damaged portions were removed prior to further preparation. For example, apples were cored and stems removed; oranges were peeled; sweet corn was husked and kernels removed from the cob, etc. Bagged processed commodities were not washed or cooked



prior to homogenization. Tomato paste was reconstituted with a designated portion of water to facilitate extraction prior to homogenization. Detailed information on sample preparation for each commodity is available in the Laboratory Operations (PDP-LABOP) Standard Operating Procedure on the PDP Web site at www.ams. usda.gov/pdp.

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

Samples are homogenized using choppers and/ or blenders and separated into analytical portions (aliquots) for analysis. If testing cannot be performed immediately, the entire analytical set is frozen at -40°C or lower, according to PDP's Quality Assurance/Quality Control (QA/QC) requirements. Surplus aliquots not used for the initial testing are retained frozen in the event that replication of analysis or verification testing is required.

For analysis of fruit and vegetables, residues are extracted using organic solvents followed by various cleanup procedures such as Solid Phase Extraction (SPE). The California, Florida, Michigan, and Washington laboratories used

various QuEChERS-based¹ approaches. The Texas laboratory used a modification of the MRM developed by the California Department of Food and Agriculture (CDFA). The New York laboratory used a method based on the Agriculture and AgriFood Canada SPE method with some modifications based on the Luke procedure. The Ohio laboratory used variations and combinations of the FDA Luke I [Section 302 of Pesticide Analytical Manual I] and Luke II [FDA Laboratory Information Bulletin 3896] extraction procedures. All MRMs are determined, prior to use and through appropriate method validation procedures, to produce equivalent data for PDP analytical purposes.

PDP laboratories primarily use gas chromatography (GC) and liquid chromatography (LC) instrumentation, coupled with tandem mass spectrometry (MS) detection systems for the simultaneous identification/confirmation and quantitation of pesticides. The use of these GC-MS/MS and LC-MS/MS systems allows the program to capture data for a broad spectrum of pesticides, including emerging product chemistries.

# **♦** Organic Lettuce

The Colorado laboratory tested organic lettuce samples for 57 parent pesticides, metabolites, degradates, and/or isomers, including an emphasis on environmental contaminants and compounds used in organic farming practices. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if determined to be inedible (decayed, extensively bruised, or spoiled). Accepted samples were prepared emulating the practices of the average consumer to more closely represent actual exposure to residues. lettuce, except bagged products, damaged/wilted and/or wrapper leaves were discarded, and the fresh leaves washed; bagged lettuce samples were not washed prior to homogenization. Samples were homogenized using food choppers and extracted using a modification of the QuEChERS method. Samples were analyzed using GC-MS and LC-MS/ MS systems.

## **♦** Beef and Catfish

The AMS NSL in Gastonia, NC, tested beef adipose and muscle tissues for 147 parent pesticides,

metabolites, degradates, and/or isomers and catfish samples for 196 analytes. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if warm to the touch, spoiled, or leaking. If not homogenized immediately after arrival, samples were frozen at 0°C or lower until homogenized. Samples were homogenized by grinding with dry ice in a large, high-speed food processor. Sample homogenates were placed into sample cups (approximately 60 grams per cup) and allowed to sublime at -20°C overnight before storing at -70°C prior to analysis. A 20-gram aliquot was weighed for each sample followed by organic solvent extraction and sample cleanup using ultra-low refrigeration (-70°C). centrifugation, and dispersive SPE. Two extra sample homogenate cups, not used for the initial testing, were retained frozen in the event that replication of analysis or verification testing was required. Samples were analyzed using GC-MS and LC-MS/MS.

#### **♦** Rice

The USDA GIPSA laboratory in Kansas City, MO, analyzed rice samples for 81 parent pesticides, metabolites, degradates, isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled, or otherwise inedible. Rice samples were refrigerated at 4°C or lower until time of grinding, after which the samples are stored at -80°C until extraction. Surplus sample aliquots, not used for the initial testing, were retained refrigerated in the event that replication of analysis or verification testing was required. Extraction of rice samples was accomplished using an acetonitrile-based solvent extraction and SPE cleanup coupled with GC-MS and LC-MS/MS detection.

# ♦ Potable Groundwater from Agricultural/ Farm, School/Childcare Facility, and Domestic Wells

In 2009, PDP performed three groundwater studies: one for agricultural wells used as drinking water sources for field workers; one for school/childcare facilities with onsite wells used for potable supplies, and one as a continuation

of private domestic wells testing. Agricultural wells providing drinking water to agricultural workers in fields are regulated by EPA's Office of Water under the Safe Drinking Water Act (SDWA) as transient, non-community water systems, while schools and childcare facilities are regulated under the SDWA as non-transient, noncommunity water systems. Testing for pesticides under the SDWA is limited to 23 compounds that have established maximum contaminant levels (MCLs). These compounds include only parent compounds-no metabolites are tested. In both surface and groundwater, metabolites, rather than parent compounds, are often detected, or the concentration of the metabolite is much greater than that of the parent compound. Metabolites are often more water-soluble and stable than the parent pesticide. EPA does not have established MCL levels or testing requirements for these metabolites.

Private residential wells supply drinking water to approximately 15 percent of the U.S. population. Private wells serving a single or a few families are not regulated under SDWA, nor by other EPA statutes. These wells are typically fairly shallow and are often sourcing the closest, or most shallow, water source. Homes with wells tend to be located in more rural locations, often in agricultural areas. Due to the cost of analysis, data on pesticides and metabolites is scarce. In 2009, PDP continued testing of private residential wells for pesticide residues.

The Minnesota laboratory analyzed groundwater samples for 94 parent pesticides, metabolites, and isomers. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. Each sample consisted of three 1-liter amber glass bottles. Upon arrival at the testing laboratory, samples were visually examined for acceptability (within 96 hours of collection with no leakage). Samples were refrigerated until time of analysis. One liter of the sample was extracted for compounds amenable to GC-MS analysis and one liter was extracted for compounds amenable to LC-MS/MS. A third bottle was held in reserve in case of breakage or laboratory accident.

## **♦** Municipal Drinking Water

The Montana and New York laboratories analyzed drinking water for 216 parent pesticides, metabolites, degradates, and isomers. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. Each sample consisted of three 1-liter amber glass bottles collected at the water treatment facility. Upon arrival at the testing laboratory, samples were visually examined for acceptability and discarded if warm to the touch or leaking. Samples were refrigerated until time of analysis and extracted within 96 hours of collection. A 1-liter bottle was extracted for compounds amenable to GC-MS or GC-MS/MS analysis and another bottle was extracted for compounds amenable to LC-MS/MS analysis. The remaining bottle was held in reserve or extracted for specialty compounds requiring separate extraction/analytical procedures (e.g., pharmaceutical compounds). The extraction methods used were initially based on SPE methods developed by the U.S. Geological Survey (USGS); these methods were modified to capture specific analytes of interest and were independently validated by each testing laboratory.

## **♦ Quality Assurance Program**

The primary objectives of the QA/QC program are to ensure the reliability of PDP data and the performance equivalency of the participating laboratories. Direction for the PDP QA program is provided through SOPs initially based on EPA Good Laboratory Practices (GLPs). The PDP SOPs provide uniform administrative and sampling procedures, as well as laboratory operations and data analyses guidelines. The program SOPs are revised annually to accommodate changes in the program and are aligned with International Organization for Standardization (ISO) requirements. PDP State food laboratories are accredited to ISO 17025.

Laboratory Technical Advisory Group and Quality Assurance Officers: A Technical Advisory Group, comprised of laboratory Technical Program Managers (TPMs) and Quality Assurance Officers (QAOs), is responsible for annually reviewing program SOPs and addressing QA issues. For dayto-day QA oversight, PDP relies on the Quality Assurance Unit (QAU) at each participating facility. The QAU operates independently from the laboratory staff and is responsible for reviewing all data generated for PDP and for performing quarterly, internal program audits. Preliminary data review procedures are performed onsite by each laboratory's QAU. Final review procedures are performed by MPO staff that are responsible for collating and reviewing data for conformance with SOPs.

Method Performance Requirements: Laboratories are required to determine and verify the limits of detection (LODs) and limits of quantitation (LOQs) for each pesticide/commodity pair. LODs depend on matrix, analyte, and methods used (extraction and instrumental). LODs for each pesticide/commodity pair are shown in the applicable crop results appendix. Additional method performance/validation requirements include modules for consistent instrument response (linearity), method range, and precision and accuracy.

Identification/Confirmation: Identification and confirmation is performed primarily by MS technologies. Residue amounts greater than or equal to LOD and below LOQ are reported as below quantifiable level (BQL). BQLs are assigned values at one-half the LOQ, and are used along with values greater than or equal to LOQ and non-detects in dietary risk assessments, when appropriate.

Routine Quality Control Procedures: PDP procedures for QC are intended to assess method and analyst performance during sample preparation, extraction, and cleanup. To maximize sample output and decrease the QC/sample ratio, samples are analyzed in analytical sets that include the test samples and the following components:

- Reagent Blank For analysis of fruit and vegetables, beef, catfish, and rice, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity.
- Matrix Blank A previously analyzed sample of the same commodity, which contains either

very low concentrations of known residues or no detectable residues, is divided into two portions. The first portion is used to determine background information on naturally occurring chemicals and the second to prepare a matrix spike.

- Matrix Spike(s) Prior to extraction, a portion of matrix blank is spiked with marker pesticides to determine the precision and accuracy of the analyst and instrument performance. Marker pesticides are compounds selected from different pesticide classes (e.g., organochlorines, organophosphates, carbamates, conazoles, imidazolinones, macrocyclic lactones, neonicotinyls, phenoxy acid herbicides, pyrethroids, strobilurins, sulfonyl urea herbicides, triazines, uracils), with physical and chemical characteristics representative of their corresponding pesticide class. Marker pesticides may be used to monitor recovery instead of spiking all pesticides. This use of marker pesticides optimizes the resources required to analyze the thousands of analyte/matrix combinations in the program while still allowing evaluation of daily recovery patterns. In addition, each laboratory must perform matrix spikes at least quarterly for each analyte/crop combination it reports. Some laboratories choose to rotate spikes of all compounds on a set-to-set basis or spike all compounds analyzed with each set, so that the amount of spike recovery data obtained actually exceeds the minimal requirements previously stated. During 2009, PDP laboratories quantitated a total of 74,085 matrix spikes, with an overall mean recovery of 97 percent and an overall percent coefficient of variation (% C.V.) of 27 percent. 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 2009, PDP laboratories quantitated a total of 44,823 process controls on 13,244 samples, with an overall mean recovery of 96 percent and an overall % C.V. of 19 percent. Of these process controls, 193 (0.4%) were reruns due to initial failure to meet PDP recovery criteria. The rerun values are not included in these statistics.

Proficiency Testing: All facilities are required to participate in PDP's Proficiency Testing (PT) program. In order to properly benchmark performance, PDP laboratories participate in two international PT programs: AOAC and the Food Analysis Performance Assessment Scheme (FAPAS) PT program, administered by the Central Science Laboratory, York, UK. In 2009, PDP laboratories that routinely analyze fruit and vegetables via MRMs participated in two AOAC rounds, one for pears and one for cucumbers. Pears were spiked with 10 compounds and cucumbers with 8 compounds. PDP fruit and vegetable laboratories participated in one FAPAS round of apples that contained six fortified analytes. The GIPSA laboratory also participated in a FAPAS round for rice multiresidue analysis and the Colorado laboratory participated in a FAPAS multiresidue pear round; the rice and pear sample sets contained three and six fortified analytes, respectively. For AOAC and FAPAS, laboratories were evaluated based on z-scores for reported compounds, as well as any reported false negatives or false positives. PDP laboratories typically obtained z-scores less than two, which is deemed satisfactory performance.

In addition, PDP laboratories participate in an internal PT program that is tailored to current PDP commodities and testing profiles, including commodities for products other than fruit and vegetables that are not typically available from an outside source. For this internal program, the CDFA QAU prepares and issues rounds designed by MPO. 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 2009, PDP laboratories received:

- Two multiresidue fruit and vegetable PT rounds (canned beans and sweet corn), each consisting of three test samples. Each round was fortified with a total of 12 compounds.

- One beef set consisting of 2 samples that were fortified with a total of 12 compounds, and
- One formetanate round consisting of fortified apple, orange, and pear samples.

For water, 2 proficiency sample sets were analyzed during 2009, with 11 compounds fortified in each round. Custom-designed test solutions, based on testing profiles and detection limits, were used for spiking, rather than distribution of spiked samples, due to stability concerns. For each PT set, the vendor supplied the laboratory's QAU with the specified solution, which was diluted according to program protocols. This solution was then used to fortify replicate samples collected from PDP sampling sites whose samples historically contained multiple pesticides but not those included in the spike solution. The spiked samples then were presented to the staff members of each respective laboratory for analysis.

Onsite Reviews: MPO staff performs onsite visits to determine compliance with PDP SOPs. Improvements in sampling, chain-of-custody, laboratory, recordkeeping, and electronic data transmission procedures are made as a result of onsite reviews.

# IV. Database Management

PDP maintains an electronic database at the MPO in Manassas, VA, that serves as a central data repository. The data captured and stored in the PDP database include sample collection and product information, residue findings, and process control recoveries for each sample analyzed, in addition to QA/QC fortified recoveries for each set of samples. Each calendar-year survey is stored in a separate database structure, which allows easier administration and data reporting. The PDP data path is illustrated in Figure 8.

#### **♦** Electronic Data Path

PDP utilizes the Remote Data Entry (RDE) system, which is a customized software application that allows participating State and Federal laboratories to enter and transmit data electronically. The RDE system is centralized with all user interface software

# SAMPLE COLLECTION DATA REVIEW AT HQ - Collection in 10 States - Chemists review data on-screen - Samples taken close to consumer - Upload data to central database - Standardized Sample Information Forms - Data entry on heldheld/laptop computers **INTERNET** LABORATORY ANALYSIS YEAR-END REVIEW - 10 State labs + 2 USDA labs + 1 EPA lab - Fruit and vegetable samples prepared for consumption - Data reconciliation - Detect residues at low levels - Pesticide residue data generated - Multi-tiered QA data review process LABORATORY REMOTE DATA INTERNET **ENTRY (RDE) DATA REPORTING** - Web-based data entry software - Import data from other systems - Standard & adhoc reporting - Access controlled by user login - Annual Summary - Extensive data cross-checks - Custom data sets

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

and database files residing in Washington, D.C. The laboratory users need only a Web browser to interface with the RDE system. Access is controlled through separate user login/password accounts and user access rights for the various system functions based on position requirements. The RDE system utilizes Secure Sockets Layer (SSL) technology to encrypt all data passed between users' computers and the central Web server.

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

The RDE data entry screens have extensive editing functions and cross-checks built into the software to ensure valid values are entered for all critical data elements. This task is made easier by the practice of capturing and storing standardized codes for all critical alphanumeric data elements rather than their complete names, meanings, or descriptions. This coding scheme allows for faster and more accurate data entry, saves disk storage space, and allows the user to perform ad-hoc queries (data searches) on the database easily. The data entry screens also perform automatic edits on numeric fields, dates, and other character fields to ensure entries are within prescribed boundaries.

At PDP headquarters, the RDE system allows staff chemists to review the data on-line and then to mark the data as ready-for-upload to the central PDP database. A separate upload application converts and passes the data to the PDP database, which is maintained using Microsoft® Access and SQL Server database tools. Access to the central PDP database is limited to MPO personnel only and is controlled through password protection and user access rights.

# **♦** Data Reporting

The MPO staff frequently receives requests for data from Government agencies and interested

outside parties. Ad-hoc queries and custom reports are generated to fill such requests. An electronic library of data queries is maintained to generate standardized data summaries, including the data tables, charts, and appendices in this annual summary. Subsets of the PDP calendar year databases are made available for download from the PDP Web site. The data files on the Web site are delimited text files that contain a portion of the sampling data, all reported residue findings, and reference lists that can be used to interpret the standardized codes used in the PDP data. The data files can be imported into defined database structures and manipulated using common database management software packages.

# V. Sample Results and Discussion

## **♦ Sample Results**

In 2009, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, rice, beef muscle and adipose, catfish, groundwater, and treated and untreated drinking water. Of the 13,244 samples collected and analyzed, 10,792 were fresh and processed fruit and vegetable commodities, 435 were rice samples, 292 were beef adipose samples, 292 were beef muscle samples, 543 were catfish samples, 278 were groundwater samples, and 612 were drinking water samples. Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2009 data set. Information included in this appendix are: number of samples analyzed for a particular compound; number and percent of samples with detections; range of concentrations detected; range of analytical LODs; and EPA tolerance levels or FDA action levels. Appendices C, D, E, F and G provide the distribution of residues for rice, beef, catfish, groundwater, and treated and untreated drinking water, respectively. The individual sample data can be downloaded from the PDP Website at http://www.ams.usda.gov/pdp or obtained by contacting MPO.

For fresh and processed fruit and vegetables, rice, and beef, approximately 78.7 percent of all samples were produced in the United States, 20.1 percent were imports, 0.3 percent of mixed origin, and 0.9 percent of unknown origin. Appendix H shows the

distribution of sample origin by State or country. Of the domestic samples, approximately 37 percent (3,574 of 9,723) were grown, packed, and/ or distributed in or from California. Groundwater and drinking water are excluded from Appendix H since the samples targeted rely on differential sampling frames and are not collected from routine PDP sample collection locations (i.e., terminal markets and large chain store distribution centers throughout the country). Groundwater samples are collected from agricultural/farm wells, school/ childcare facility wells, and private domestic wells and treated and untreated drinking water samples are collected by water treatment facilities. Appendix I includes a comparison of residues for selected commodities with a significant import component.

Food monitoring data, together with dietary consumption surveys, are used by EPA to estimate dietary exposure to pesticides to ensure the safety of existing pesticide uses. EPA uses all results reported by PDP, including sample results reported as below the LOD and those above the tolerance. PDP laboratories are required to establish LODs and report any instrumental response below the LOD as a non-detect. LODs are established experimentally for each pesticide/commodity pair and are reported with each data set. The number of non-detects can be used in conjunction with percent crop treated data to determine what proportion of these values may be counted as zero towards the dietary exposure. As shown in Table 3, 98.7 percent of the analyses performed across all fresh and processed fruit and vegetable commodities, rice, and beef were reported as nondetects (i.e., results were below the established For samples containing residues, the vast majority of the detections were well below established tolerances.

## **♦** Import vs. Domestic Residue Comparisons

Information about the origin of each PDP sample is recorded when the sample is collected. Figure 3 illustrates the portion of the domestic and import component for each of the PDP fruit and vegetable commodities in 2009. The data generated by PDP reflect pesticide residues in foods, both domestic and imported products, available to the U.S.

consumer. Many commodities are almost entirely of domestic origin, such as potatoes (98.4%) and sweet potatoes (98.9%) with only minor import (1.2% and 0%, respectively) and unknown components (0.4% and 1.1%, respectively). However, some fresh commodities, such as asparagus, cucumbers, and grapes, are from domestic growers part of the year and imported during the remaining months, as illustrated in Figure 4.

Comparisons of selected residues detected in imported versus domestic cucumbers and grapes can be found in Appendix I. These sample sets were selected to compare data where residues are present in greater than 10 percent of the commodity and allow for the comparison of individual residues. These data also show that the residue profiles for domestic and imported crops are significantly different.

The cucumber data in Appendix I illustrate that in 2009 cyromazine, endosulfan I/II/sulfate, and metalaxyl were detected more frequently in imported samples than in domestic samples. For example, cyromazine was detected in 20.2 percent of the samples from Mexico and 2.5 percent of the U.S. samples. Endosulfan I, II, and sulfate were detected in 39.8 percent, 31.1 percent, and 39.0 percent of the Mexican samples, respectively and in 19.8 percent, 19.2 percent, and 19.8 percent of the domestic samples, respectively. Metalaxyl was detected in 24.3 percent of the Mexican samples and in 13.2 percent of the U.S. samples. Carbendazim, oxamyl and its oxime metabolite, and thiamethoxam were detected with relatively equal frequency in both the U.S. and Mexican cucumbers.

For grapes, cyprodinil, fenhexamid, fludioxonil, imidacloprid, iprodione, myclobutanil, quinoxyfen, and tebuconazole were detected more often in the imported grape samples than in the domestic grape samples while methoxyfenozide and trifloxystrobin were detected more frequently in U.S. samples than in Chilean samples. Cyprodinil was detected in 31.5 percent of the Chilean grape samples compared to 19.6 percent of the domestic samples. Fenhexamid was detected in 70.6 percent of the Chilean samples compared to 18.1 percent of the domestic samples while fludioxonil was detected in 45.8 percent of the Chilean samples compared

	Number of Samples Analyzed	Number of Pesticides in Testing Profile	Number of Registered Pesticide Uses	Number of Different Pesticides Detected	Number of Analyses Performed	Number of Residue Detections	Number of Non- Detections	Percent of Residue Detections
Fresh Fruit and Vegetables	5							
Apples	744	194	138	48	140,881	3,717	137,164	2.6
Asparagus	744	167	121	16	80,724	94	80,630	0.1
Cilantro	184	130	32	43*	28,176	602	27,574	2.1
Cucumbers	744	196	113	69	141,943	2,029	139,914	1.4
Grapes	744	188	151	48	121,458	3,236	118,222	2.7
Green Onions	558	148	74	29	98,840	703	98,137	0.7
Lettuce, Organic	387	47	NA	5	21,859	84	21,775	0.4
Oranges	744	182	105	15	114,428	1,195	113,233	1.0
Pears	743	88	126	36	77,824	1,604	76,220	2.1
Potatoes	744	169	134	28	108,441	1,397	107,044	1.3
Spinach	744	179	95	47	100,914	2,043	98,874	2
Strawberries	744	188	115	39	121,444	3,912	117,532	3.2
Sweet Corn, Fresh	668	174	131	1	88,429	1	88,428	< 0.1
Sweet Potatoes	739	181	92	17	108,998	372	108,626	0.3
TOTAL FRESH	9,231				1,354,362	20,989	1,333,373	
Processed Fruit and Veget	ables							
Garbanzo Beans, Canned	186	170	110	1	27,104	1	27,103	< 0.1
Kidney Beans, Canned	186	169	110	1	27,314	2	27,312	< 0.1
Pinto Beans, Canned	372	169	110	2	54,296	12	54,284	< 0.1
Sweet Corn, Frozen	75	174	131	0	8,549	0	8,549	0
Tomato Paste	742	81	139	4	73,458	31	73,427	< 0.1
TOTAL PROCESSED	1,561				190,721	46	190,675	
Fruit and Vegetable Total Number of Samples Ana Total Number of Analyse Total Number of Differen	llyzed = 10,792 s Performed =	1,545,083		Total Num	Total Residue ber of Non-De ber of Residue	tects = 1,524	,048	
Grain Product								
Rice	435	70	94	4	32,787	147	32,640	0.4
Meat Product								
Beef Adipose	292	130	171	9	42,884	142	42,742	0.3
Beef Muscle	292	130	163	6	42,924	36	42,888	0.1
All Commodities (exclusion Number of Samples Ana	_		12 finished/t		k <b>ing water,</b> a f Total Residu			es)

Number of Samples Analyzed = 11,811 Total Number of Analyses Performed = 1,663,678 Total Number of Different Pesticides Detected = 128 Percent of Total Residue Detections = 1.3% Total Number of Non-Detects = 1,642,318 Total Number of Residue Detections = 21,360

Table 3. Number of Samples Analyzed and Summary of Results Per Commodity. The percent of residue detections is obtained by comparing the total number of residues detected to the total number of analyses performed per commodity. Table 3 also shows the number of pesticides in PDP's testing profile for a given commodity, number of registered pesticide uses, and number of different pesticides detected.

<sup>\*</sup> A number of these chemicals are approved for use in parsley, a commodity similar to cilantro. There appears to be confustion whether the uses registered for parsley apply to cilantro; this has been communicated to EPA and FDA.

to 1.6 percent of the U.S. samples. Imidacloprid, iprodione, and myclobutanil were detected in 60.1 percent, 36.4 percent, and 43.7 percent of the Chilean samples, respectively, and in 45.0 percent, 4.2 percent, and 27.2 percent of the domestic samples, respectively. Quinoxyfen was detected in 37.6 percent of the Chilean samples and in 23.2 percent of the U.S. samples while tebuconazole was detected in 29.7 percent of the Chilean samples and in 16.2 percent of the domestic samples. Methoxyfenozide was detected in 36.4 percent of the U.S. samples and in 25.9 percent of the Chilean samples and trifloxystrobin was detected in 37.7 percent of the U.S. samples and in 18.5 percent of the Chilean samples. Boscalid, pyraclostrobin, and pyrimethanil were detected with relatively equal frequency in both the U.S. and Chilean grapes.

All pesticides detected were registered in the U.S., however, the profiles of residue findings were markedly different in the U.S. samples versus samples from these exporting countries. The differences in residue detections between countries were likely due to the pesticides used in response to pest pressures based on differing environmental, climatic, and growing conditions.

## **♦** Postharvest Applications

Pesticides can be applied before and after harvest depending on the crop and approved label use. PDP data capture both preharvest and postharvest uses because samples are collected at points when all pesticide applications have already occurred. Pesticides applied postharvest are used primarily as fungicides (e.g., azoxystrobin, imazalil, o-phenylphenol, and thiabendazole) and sprouting inhibitors (e.g., chlorpropham). Some detections reported in Appendix B most likely reflect postharvest applications to the raw agricultural commodity.

## **♦** Environmental Contaminants

Environmental contaminants are pesticides whose uses have been canceled in the United States, but their residues persist in the environment, particularly in soil, where they may be taken up by plants. PDP tracks environmental contaminants to monitor their presence in the environment and provides these data

to Codex Alimentarius. These data are also used to facilitate international trade.

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, residues of DDT and its DDD and DDE metabolites were detected in some commodities tested. DDE p,p' was detected mainly in catfish (65.0%), beef adipose tissues (23.6%), spinach (20.8%), and cilantro (19.6%). Except for cilantro, all residues detected were lower than the FDA Action Levels (ALs). Cilantro DDE p,p' residues are not covered by ALs and are therefore, reported as presumptive violations. Details of residue results for DDT, DDD, and DDE may be found in Appendices B, C, D, E, and G.

Other Extraneous Pesticides: PDP screened samples for other extraneous residues (environmental contaminants) including: aldrin; BHC; chlordane (cis/trans) and its metabolite oxychlordane; dieldrin: endrin; heptachlor and its epoxide metabolite; and hexachlorobenzene (HCB). HCB was used as a seed protectant until 1965 but, due to its persistence, remains in soil and grasses. In 1974, all aldrin and dieldrin uses were canceled in the United States and, in 1978, all heptachlor uses were canceled. In 1986, chlordane uses, except termiticide uses, were canceled. Despite these cancellations and because they persist in the environment, residues of BHC, chlordane, HCB, dieldrin, endrin, and heptachlor epoxide were detected in some of the tested commodities. For example, dieldrin was detected in 5.6 percent of cucumber samples, chlordane (cis) was detected in 3.8 percent of cilantro samples, and chlordane (trans) was detected in 1.2 percent of cucumber samples. All other detections of environmental contaminant residues were at a frequency below 5 percent. For all cases, the detected levels were much lower than the FDA action levels, where applicable. None of the drinking water samples (treated or untreated) had residues of aldrin, chlordane or its metabolite oxychlordane. dieldrin, endrin, or heptachlor epoxide. Details of residue results for environmental contaminants may be found in Appendices B, C, D, E, and G.

#### ♦ Overview of Results

Table 3 gives an overview of the number of samples analyzed and a summary of results for fresh and processed fruit and vegetables, rice, and beef. The percent of total residue detections is obtained by comparing the total number of residues detected to the total number of analyses performed per commodity. The percentage of total residue detections for fresh fruit and vegetables ranged from 0 to 3.2 percent, with a mean of 1.5 percent. The percentage of total residue detections for all processed fruit and vegetables was approximately 0.02 percent. The percentage of total residue detections for rice was 0.4 percent, beef adipose was 0.3 percent, and beef muscle 0.1 percent. Of the 11,811 samples analyzed, the overall percentage of total residue detections was 1.3 percent. Excluded from Table 3 are catfish, groundwater, and treated and untreated drinking water, which are presented separately in Appendix E (catfish), Appendix F (groundwater), and Appendix G (drinking water). Catfish and water are not included in the statistics for overall sample results because residue levels. if found, are mainly the result of environmental contamination or transfer, rather than from registered agricultural uses on the commodity.

Table 3 also shows the number of pesticides in PDP's testing profile for a given commodity, the number of registered, or allowable, pesticide uses by commodity, and the number of pesticides actually found on the crop. It should be noted that many pesticides are available for use on the same crop; however, not all crops are sprayed and not all available pesticides are used at the same time or location. These differences are captured by PDP data which reflect actual residues present in food grown in various regions of the U.S. and overseas. Thus, in evaluating consumer exposure to pesticides through the diet, EPA uses all available information provided by registrants, PDP, and others to verify that tolerances meet the safety standards set by FQPA. The reporting of residues present at levels below the established tolerance serves to ensure and verify the safety of the Nation's food supply.

Excluding groundwater and drinking water, pesticide/commodity pairs with detections in at

least 10 percent of samples tested are shown in Appendix J. The data shown include the range and mean of values detected, range of LODs and U.S. EPA tolerance references for each pair. Because beef and catfish residues are expressed in parts per billion (ppb), EPA tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. Results for beef and catfish are shown at the end of Appendix J.

By virtue of the MRMs employed, PDP provides novel data that can be used by EPA to evaluate exposure to multiple residues from the same commodity. The data are crucial for assessments that consider cumulative exposure to pesticides determined to have common mechanisms of toxicity. The distribution of multiple pesticides occurring in samples tested during 2009 is presented in Appendix K.

These data indicate that approximately 43 percent of all samples tested, excluding catfish, groundwater, and treated and untreated drinking water, contained no detectable pesticides, 17 percent contained 1 pesticide, and 40 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," as was reported in summaries prior to 2003. For example, a sample with positive detections for endosulfan I, II, and sulfate would have been counted as three residues in the 2002 Appendix L. That sample would be counted as just one pesticide detected in Appendix K of this Summary.

Thirteen pesticides were detected in two grape samples and one strawberry sample. Most multiple residue detections result from the application of more than one pesticide on a crop during a growing season; however, a number of other factors could contribute to multiple detections. Pesticide spray drift, residue transfer through crop rotation or at packing facilities, and/or presence of persistent environmental contaminants could all contribute to residue detections.

It should be noted that, 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 of pesticides per concentration in a single serving item of a commodity.

#### **♦** Special Projects

Organic Lettuce: The Colorado laboratory conducted testing on 387 organic lettuce samples. Appendix B shows that of the 57 compounds tested, 6 different residues (including metabolites). representing 5 pesticides, were detected. The most frequently detected compounds were spinosad (18.3%) and azadirachtin A/B (1.8% and 0.3%, respectively), both of which are allowable for use in organic practices. The Organic Foods Production Act (OFPA) states that, "When residue testing detects prohibited substances at levels that are greater than 5 percent of the Environmental Protection Agency's tolerance for the specific residue detected or unavoidable residual environmental contamination, the agricultural product must not be sold, labeled, or represented as organically produced."2 Cypermethrin was found in one organic lettuce sample at 0.06 parts per million (ppm) where a tolerance of 10.00 ppm is established for conventionally-grown lettuce. DDE p,p', an environmental contaminant, was detected in one sample of organic lettuce (0.5%). Three samples (0.8%) contained violative residues of phosmet oxygen analog; no tolerance is established for the parent compound, phosmet, in conventionally-grown lettuce.

Rice: The USDA GIPSA laboratory conducted testing on 435 rice samples. Appendix C shows that 15 different residues (including metabolites), representing 14 pesticides, were detected in the rice samples. The most frequently detected residue was piperonyl butoxide which was detected in 73 samples (16.8%). MGK-264 was detected in 38 samples (8.7%). Other compounds detected in one or more percent of the samples include: DDD p,p' (1.1%), malathion (1.8%), permethrin (1.2%), and propiconazole (1.1%). Allethrin, carbaryl, carbendazim, endosulfan II, endosulfan sulfate, fludioxonil, imidacloprid, propanil, and resmethrin were detected in less than one percent of the rice samples.

Beef: The AMS NSL, conducted testing for pesticide residues on 292 beef adipose and 292 beef muscle tissue Overall, 13 different residues (including metabolites), representing 9 pesticides, were detected in the beef samples. DDE p,p' was the most frequently detected residue with 23.6 percent of the adipose tissue samples containing detectable levels of DDE p,p' and 6.8 percent of the muscle tissues containing detectable levels. Cyhalothrin was detected in 11.6 percent of adipose samples and 2.4 percent of muscle samples. Bifenthrin was detected in 5.1 percent of the adipose samples and 0.3 percent of the muscle samples. Endosulfan sulfate, hexachlorobenzene, and permethrin were each detected in 1.7 percent of the adipose samples and diphenylamine was detected in 1.7 percent of the muscle samples. Other residues were detected in less than one percent of the samples as follows: cyfluthrin in adipose and muscle; DDD p.p', DDT p,p', diphenylamine, endosulfan I, endosulfan II, and piperonyl butoxide in adipose; and endosulfan sulfate in muscle. All residue detections were lower than the established tolerances for those compounds with established tolerances.

Catfish: The AMS NSL conducted testing for pesticide residues on 543 catfish samples. Overall, 41 different residues (including metabolites), representing 30 pesticides, were detected in the catfish samples. The DDT metabolites, DDE p,p' (65.0%) and DDD p,p' (29.8%) were the most frequently detected residues. Other residues detected in more than 5 percent of the samples include: bifenthrin (16.2%), DDD o,p' (8.3%), diuron (7.0%), toxaphene (6.4%), endosulfan sulfate (5.9%), and chlorpyrifos (5.5%).

The majority of residues detected are not associated with pesticide applications, but rather are most likely attributable to environmental exposure and are covered by Action Levels (ALs) established by FDA or by food handling establishment tolerances. Pesticides for which no tolerance was established in fish or catfish are likely to be present in water; EPA is addressing these issues under environmental impact assessments. For these reasons, catfish residue results, along with results from groundwater and drinking water, are excluded when providing overall residue counts.

#### **♦** Potable Groundwater from Domestic Wells

In 2009, a total of 278 groundwater samples were collected from agricultural/farm wells, school/childcare

facility wells, and private domestic wells. Overall, PDP detected 29 different residues (including metabolites), representing 19 pesticides, in the groundwater samples. Most of the detections were for herbicides or their metabolites. The samples with detectable residues came from 152 different sites. Residue profiles are shown in Appendix F.

#### **♦** Municipal Drinking Water

PDP analyzed 612 water samples (306 untreated samples and 306 finished samples) from community water systems. Appendix G shows the concentration of detected residues in treated and untreated water. Fifty-three different residues (including metabolites), representing 42 pesticides, were detected in the finished drinking water and 49 different residues (including metabolites), representing 38 pesticides, were detected in the untreated intake water. The majority of pesticides included in the PDP testing profiles were not detected; those compounds that were detected were primarily commonly used herbicides and their metabolites.

Water treatment technologies vary widely and may be based on the local water chemistry, targeted contaminants needing removal, and cost. In most cases, there were more detections in the untreated water than in the treated water. In a few cases, residues detected in the treated water were not found in the untreated water. The data acquired to date indicate the water treatment process removed matrix interferences, allowing for a more sensitive measurement in the treated water. Depending on the treatment process employed, individual pesticides are entirely, partially, or not removed during the treatment process.

Appendix G also lists the MCL and/or Health Advisory (HA) values. None of the detections in the finished water samples exceeded established EPA MCL or HA levels; however, many of the compounds in the PDP testing profiles do not have established regulatory standards. Therefore, for comparative purposes, EPA Fresh Aquatic Organism (FAO) criteria, which are much lower than human-based MCLs or HA levels, also are given. These criteria are lower than MCL or HA levels due primarily to higher exposure to these

compounds because aquatic organisms live all or most of their lives in water. During 2009, no detections exceeded established FAO levels. Additional information regarding EPA drinking water standards is available at: http://www.epa.gov/safewater/standards/setting.html.

#### **♦** 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 contains an amendment to the Federal Insecticide, Fungicide and Rodenticide Act that requires the EPA to review each pesticide registration every 15 years. Timely pesticide data provided by PDP enables the EPA to refine risk estimates used in the pesticide reregistration process.

A tolerance violation occurs when a residue is found that exceeds the tolerance level or when a residue is found for which there is no established tolerance. With the exception of meat, poultry, and egg products, for which USDA is responsible, FDA enforces tolerances for all imported and domestic foods that move through interstate commerce. Unlike enforcement programs, PDP emphasizes determination of residues at the lowest detectable levels rather than quick turn-around times. When PDP identifies samples with residues exceeding the tolerance or with residues for which there is no established tolerance, these detections are reported to FDA regional and headquarters offices. This notification is made in accordance with a Memorandum of Understanding between USDA and FDA for the purpose of pinpointing areas where closer surveillance may be needed. FDA enforcement action has not been a practical response to PDP analysis because of the time required between sample collection and data reporting.

Residues exceeding the established tolerance are noted with an "X" in Appendices B, C, D, and E. Similarly, residues for which a tolerance is not established are noted with a "V." The "X" and "V" annotations are followed by a number indicating

the number of samples reported to FDA. The EPA tolerances cited in this summary and Appendices apply to 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative.

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

A total of 397 samples with 635 residues were reported to the FDA as Presumptive Tolerance Violations. Residues exceeding the tolerance were detected in 46 (0.3%) of the samples tested. The

samples containing residues that exceed established tolerances include: 2 apple samples, 6 asparagus samples, 1 cilantro sample, 3 cucumber samples, 2 samples of grapes, 1 green onion sample, 1 pear sample, 16 potato samples, 6 spinach samples, 4 samples of strawberries, and 4 sweet potato samples. Of those 46 samples, 14 were reported as imported produce.

Residues with no established tolerance were found in 357 (2.7%) of the samples, which included 342 fruit and vegetable samples, 10 samples of rice, and 5 beef adipose samples. There were 241 samples with 1 residue each, 67 samples with 2 residues each, 14 samples with 3 residues each, 17 samples with 4 residues each, 11 samples with 5 residues each, 3 samples with 6 residues each, 2 samples with 7 residues each, and 2 samples with 8 residues each. Six samples with residues having no established tolerance also contained one residue that exceeded an established tolerance. In most cases, these residues were detected at very low levels and some residues may have resulted from spray drift or crop rotations. The residue levels and commodities are listed in Appendix L.

### References

- 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.
- <sup>2</sup> Title 7 Part 250.671 Code of Federal Regulations



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# Appendix A

# **Commodity History**

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2010. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

# **COMMODITY HISTORY AS OF DECEMBER 2010**

#### Fresh Commodities

Commodity	Start Date	End Date
Apples <sup>1</sup>	Sep-91	Dec-96
Apples (S-1)	Jan-99	Dec-99
Apples (S-2)	Jan-99	May-99
Apples	Oct-00	Sep-02
Apples	Jan-04	Dec-05
Apples	Jan-09	Dec-10
Apples (T-1)	Jan-03	Dec-03
Asparagus	Jan-02	Jun-03
Asparagus	Jul-08	Jun-10
Bananas	Sep-91	Sep-95
Bananas	Jan-01	Dec-02
Bananas	Jan-06	Dec-07
Bananas (TSP)	Jul-03	Dec-03
Blueberries (cultivated) <sup>2</sup>	Jan-07	Dec-08
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Sep-08
Cabbage	Jan-10	Ongoing
Cantaloupe	Jul-98	Jun-00
Cantaloupe	Oct-03	Sep-05
Cantaloupe	Jan-10	Mar-10
Cantaloupe	Oct-10	Ongoing
Carrots <sup>1</sup>	Oct-92	Sep-96
Carrots	Oct-00	Sep-02
Carrots	Jan-06	Dec-07
Cauliflower	Oct-04	Sep-06
Celery	Feb-92	Mar-94
Celery	Jan-01	Dec-02
Celery	Jan-07	Dec-08
Cherries <sup>3</sup>	May-00	Aug-01
Cherries	May-07	Sep-07
Cilantro	Oct-09	Sep-10
Cranberries	Oct-06	Dec-06
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Cucumbers	Jan-09	Dec-10
Eggplant	Jan-05	Dec-06
Eggs (TSP)	Jul-03	Dec-03

Commodity	Start Date	End Date
Eggs	Jul-10	Ongoing
Grapefruit	Aug-91	Dec-93
Grapefruit	Jan-05	Dec-06
Grapes <sup>1</sup>	May-91	Dec-96
Grapes	Jan-00	Dec-01
Grapes (TSP)	Jul-03	Dec-03
Grapes	Jan-04	Dec-05
Grapes	Jan-09	Dec-10
Green Beans	Feb-92	Dec-95
Green Beans	Jan-00	Dec-01
Green Beans	Apr-04	Mar-05
Green Beans	Jan-07	Dec-08
Green Onions (scallions)	Oct-08	Sep-09
Greens (collard & kale)	Oct-06	Sep-08
Hot Peppers	Oct-10	Ongoing
Lettuce	May-91	Dec-94
Lettuce	Oct-99	Sep-01
Lettuce	Jan-04	Dec-05
Lettuce	Jan-10	Ongoing
Lettuce, Organic	Jan-09	Dec-09
Mangoes	Apr-10	Sep-10
Mushrooms	Oct-01	Sep-03
Nectarines <sup>4</sup>	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08
Onions	Jan-02	Dec-03
Oranges <sup>1</sup>	Aug-91	Dec-96
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Oranges	Jan-09	Dec-10
Peaches	Feb-92	Sep-96
Peaches (S-3)	Jan-00	Sep-00
Peaches <sup>5</sup>	Jan-01	Sep-02
Peaches (T-1)	May-03	Sep-03
Peaches	Oct-06	Sep-08
Pears	Jan-97	Jun-99
Pears (S-1)	Jul-98	Jun-99
Pears	Oct-03	Sep-05
Pears	Jan-09	Dec-10
Pineapples	Jul-00	Jun-02
Plums <sup>6</sup>	Jan-05	Dec-06
Potatoes	May-91	Dec-95

Commodity	Start Date	End Date
Potatoes (S-4)	Dec-96	Dec-97
Potatoes	Jul-00	Jun-02
Potatoes	Jan-08	Dec-09
Spinach <sup>1</sup>	Jan-95	Sep-97
Spinach	Jul-02	Dec-03
Spinach <sup>7</sup>	Jan-06	Sep-06
Spinach	Jan-08	Dec-09
Strawberries <sup>2</sup>	Jan-98	Sep-00
Strawberries	Jan-04	Dec-05
Strawberries	Jan-08	Dec-09
Summer Squash	Oct-06	Sep-08
Sweet Corn (on-the-cob)	Oct-08	Sep-10
Sweet Bell Peppers	Jan-99	Dec-00
Sweet Bell Peppers	Oct-02	Sep-04
Sweet Bell Peppers	Jan-10	Ongoing
Sweet Potatoes 1	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Sweet Potatoes	Oct-08	Sep-10
Tomatoes <sup>1</sup>	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Dec-08
Watermelon <sup>8</sup>	Oct-05	Sep-06
Watermelon	Apr-10	Sep-10
Winter Squash <sup>2</sup>	Jan-97	Jun-99
Winter Squash	Jul-04	Jun-06

Excludes sampling hiatus September - November 1996.

- (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.

<sup>&</sup>lt;sup>2</sup> Frozen collected when fresh unavailable.

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

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

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

<sup>&</sup>lt;sup>5</sup> Dried plums (prunes) were collected when fresh plums were not available.

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

<sup>8</sup> Samples collected in California, Florida, and Texas only.

#### **Processed Commodities**

Commodity	Start Date	End Date
Apple Juice <sup>1</sup>	Jul-96	Dec-98
Apple Juice	Jan-02	Dec-02
Apple Juice	Jul-07	Jun-08
Applesauce	Jul-02	Dec-02
Applesauce	Jan-06	Dec-06
Asparagus, Canned	Jul-03	Dec-03
Baby Food, Green Beans	Oct-10	Ongoing
Baby Food, Pears	Oct-10	Ongoing
Baby Food, Sweet Potatoes	Oct-10	Ongoing
Beans, Canned (4 varieties)	Oct-08	Sep-10
Blueberries (cultivated), Frozen <sup>2</sup>	Jan-07	Dec-08
Corn Syrup <sup>3</sup>	Jan-98	Jun-99
Grape Juice	Jan-98	Dec-99
Grape Juice	Jan-08	Dec-08
Green Beans, Canned/Frozen <sup>1</sup>	Jan-96	Jun-98
Green Beans, Canned	Jan-03	Mar-04
Green Beans, Frozen	Apr-05	Dec-05
Orange Juice	Jan-97	Dec-98
Orange Juice	Oct-04	Sep-06
Orange Juice	Oct-10	Ongoing
Peaches, Canned	Dec-96	Dec-97
Peaches, Canned	Jan-03	Dec-04
Peaches, Canned (T-1)	Jan-03	Mar-03
Peaches, Canned (T-1)	Oct-03	Dec-03
Pear Juice, Concentrate/Puree	Jul-02	Jun-03
Pears, Canned	Jul-99	Jun-00
Peas, Canned/Frozen	Apr-94	Jun-96
Peas, Canned/Frozen <sup>4</sup>	Oct-01	Sep-03
Peas, Frozen	Jan-06	Dec-06
Plums, Dried (Prunes) <sup>5</sup>	Jan-05	Dec-06
Potatoes, Frozen	Jan-06	Dec-07
Raisins	Jul-06	Jun-07
Spinach, Canned	Oct-97	Dec-98
Spinach, Frozen	Jan-99	Dec-99
Spinach, Canned	Jan-04	Jun-04
Spinach, Canned/Frozen	Jul-10	Ongoing

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

Excludes sampling hiatus September - November 1996
 Frozen collected when fresh unavailable
 Excludes sampling hiatus January 1999

<sup>&</sup>lt;sup>4</sup>Canned samples collected in first year and frozen samples in second year of testing.

<sup>&</sup>lt;sup>5</sup> Dried plums (prunes) were collected when fresh plums were not available.

<sup>(</sup>T-1) Triazole parent and metabolite compounds only.

<sup>(</sup>TSP) Triazole Sampling Project. Samples sent to contract laboratory.

#### Grains

Commodity	Start Date	<b>End Date</b>
Barley	Oct-01	Sep-03
Corn	Oct-06	Sep-08
Oats	Jul-99	Apr-00
Oats	Jan-10	Jun-10
Rice	Oct-00	Sep-02
Rice <sup>1</sup>	Oct-08	Sep-09
Soybeans	Sep-96	Feb-98
Soybeans	Oct-03	Sep-05
Soybeans	Sep-10	Ongoing
Soybean Rust/Aphid	Oct-05	Dec-05
Wheat	Feb-95	Jan-98
Wheat	Sep-04	Jun-06
Wheat Flour	Jan-03	Dec-04
Wheat Flour (T-1)	Jan-03	Dec-03

# **Nuts and Nut Products**

Commodity	Start Date	End Date
Almonds	Jul-07	Mar-08
Peanut Butter	Jan-00	Dec-00
Peanut Butter	Jan-06	Dec-06
Peanut Butter (TSP)	Jul-03	Dec-03

# Dairy

Commodity	Start Date	End Date
Butter	Jan-03	Dec-03
Heavy Cream	Jul-05	Dec-05
Heavy Cream	Jan-07	Dec-07
Milk <sup>2</sup>	Jan-96	Oct-98
Milk (TSP)	Jul-03	Dec-03
Milk	Jan-04	Dec-05

# Meat / Poultry / Fish Products

Commodity	Туре	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 <sup>3</sup>	Cows, Heifers, Steers	Dec-08	May-09
Pork	Gilt, Barrow	Jan-05	Jun-05
Fish <sup>4</sup>	Catfish	Apr-08	Jun-10

#### Other

Commodity	Start Date	End Date
Honey	Oct-07	Sep-08

Groundwater

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 (53 sites)	Jan-04	Ongoing
Alabama, Arizona, California, Florida, Georgia, Illinois		•
Louisiana, Maryland, Michigan, Minnesota, Missouri,	•	•
North Carolina, North Dakota, Ohio, Oregon, Pennsy	Ivania, South Caro	lina, Texas,
Virginia, Washington State, and Washington, DC		
Bottled Water		
10 Participating States	Jan-05	Dec-06
	33	233 00

489 Private Wells in 37 States

Ongoing

Jan-07

<sup>&</sup>lt;sup>1</sup> Includes hiatus May-July 2009

<sup>&</sup>lt;sup>2</sup> Excludes sampling hiatus September - November 1996

Survey ends 7 months early due to budgetary constraints

<sup>&</sup>lt;sup>4</sup> Excludes sampling hiatus April-June 2009

<sup>(</sup>T-1) Triazole parent and metabolite compounds only

<sup>(</sup>TSP) Triazole Sampling Project. Samples sent to contract laboratory

#### **Appendix B**

# Distribution of Residues by Pesticide in Fruit and Vegetables

Appendix B shows residue detections for all fruit and vegetable pesticide/commodity pairs tested, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerances for each pair. The EPA tolerances cited in this summary and Appendices apply to 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2009, 10,792 fruit and vegetable samples were analyzed, of which 9,231 were fresh product and 1,561 were processed product.

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

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

APPENDIX 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,	EPA Tolerance Level, ppn
	Campies	Detections	Detections	Detected, ppin	ppiii	Level, ppi
2,4-D (herbicide)	534	•			0.005 ^	0.05
Grapes Strawberries	534	0			0.005 ^	0.05
		<u>0</u> <b>0</b>			0.005 ^	0.05
TOTAL	1,068	U				
Acephate (insecticide)						
Apples	744	0			0.002 ^	0.02
Asparagus	210	0			0.002 ^	0.02
Cucumbers (X-1)	744	5	0.7	0.003 - 0.034	0.002 - 0.007	0.02
Garbanzo Beans, Canned	186	0			0.002 - 0.030	3.0
Grapes	722	0			0.002 - 0.51	0.02
Green Onions	558	0			0.005 ^	0.02
Kidney Beans, Canned	186	0			0.002 - 0.030	3.0
Oranges	722	0			0.002 - 0.010	0.02
Pears	742	0			0.004 ^	0.02
Pinto Beans, Canned	372	0			0.002 - 0.030	3.0
Potatoes	744	0			0.002 - 0.030	0.02
Spinach	744	7	0.9	0.004 - 0.008	0.002 - 0.010	0.02
Strawberries	744	0			0.002 - 0.51	0.02
Sweet Corn, Fresh	201	0			0.002 ^	0.02
Sweet Corn, Frozen	8	0			0.002 ^	0.02
Sweet Potatoes	210	1	0.5	0.004 ^	0.002 ^	0.02
Tomato Paste	<u>742</u>	Q			0.015 ^	0.02
TOTAL	8,579	13				
Acetamiprid (insecticide)						
Apples	744	246	33.1	0.002 - 0.11	0.001 - 0.002	1.0
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002	NT
Cucumbers	744	50	6.7	0.002 - 0.090	0.001 - 0.002	0.50
Garbanzo Beans, Canned	186	0	0.7	0.002 - 0.030	0.001 - 0.002	0.40
Grapes	744	16	2.2	0.001 - 0.13	0.002 - 0.003	0.40
Green Onions	558	0	2.2	0.001 - 0.13	0.001 - 0.002	4.5
Kidney Beans, Canned	186				0.001 - 0.003	0.40
	387	0			0.002 - 0.003	3.00
Lettuce, Organic		0 3	0.4	0.003 ^		
Oranges	744 742	_	0.4 41.1		0.002 - 0.010 0.007 ^	0.50
Pears		305	41.1	0.012 - 0.28		1.0
Pinto Beans, Canned	372	0			0.002 - 0.003	0.40
Potatoes	744	0	0.0	0.000 4.0	0.002 - 0.003	0.01
Spinach	744	45	6.0	0.003 - 1.6	0.002 - 0.010	3.00
Strawberries (X-1)	744	152	20.4	0.001 - 0.67	0.001 - 0.002	0.60
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	0			0.002 ^	0.01
Tomato Paste TOTAL	<u>742</u> 9,194	<u>0</u> <b>817</b>			0.020 - 0.023	0.40
TOTAL	3,104	0				
Acetochlor (herbicide)						
Sweet Corn, Fresh	467	0			0.020 ^	0.05
Sweet Corn, Frozen	<u>67</u>	<u>0</u>			0.020 ^	0.05
TOTAL	534	0				
Acibenzolar S methyl (plant ac	ctivator)					
Apples	120	0			0.007 ^	NT
Cilantro	184	0			0.007 ^	NT
Cucumbers	519	0			0.007 ^	2.0
Green Onions	558	0			0.007 ^	0.05
Tomato Paste	742	<u>0</u>			0.18 ^	3.0
TOTAL	2,123	0			- · <del>-</del>	

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Alachlor (herbicide)						
Sweet Corn, Fresh	467	0			0.020 ^	0.05
Sweet Corn, Frozen	67	<u>0</u>			0.020 ^	0.05
TOTAL	534	0				
Aldicarb (insecticide)						
Apples	609	0			0.001 - 0.006	NT
Asparagus	210	0			0.006 ^	NT
Cucumbers	609	0			0.003 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	744	0			0.005 - 0.006	NT
Green Onions	528	0			0.003 - 0.015	NT
Kidney Beans, Canned	186	0			0.003 - 0.006	NT
Oranges	744	0			0.006 - 0.010	0.3
Pinto Beans, Canned	372	0			0.003 - 0.006	NT
Potatoes	744	0			0.003 - 0.006	1
Spinach	744	Ö			0.006 - 0.010	NT
Strawberries	744	0			0.005 - 0.006	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>739</u>	-			0.006 - 0.010	0.1
TOTAL	7,368	<u>0</u> <b>0</b>			0.000 - 0.010	0.1
Aldicarb sulfone (metabolite o	f Aldicarh)					
Apples	744	0			0.003 - 0.006	NT
	210	0			0.003 - 0.006	NT
Asparagus Cilantro						NT
	184	0			0.003 - 0.010	
Cucumbers	609	0			0.006 - 0.010	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	744	0			0.005 - 0.006	NT
Green Onions	558	0			0.003 - 0.010	NT
Kidney Beans, Canned	186	0			0.003 - 0.006	NT
Oranges	744	0			0.006 - 0.010	0.3
Pinto Beans, Canned	372	0			0.003 - 0.006	NT
Potatoes	744	20	2.7	0.004 - 0.26	0.003 - 0.006	1
Spinach	298	0			0.006 - 0.010	NT
Strawberries	744	0			0.005 - 0.006	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>739</u>	Ω			0.006 - 0.010	0.1
TOTAL	7,271	20				
Aldicarb sulfoxide (metabolite	of Aldicarb)					
Apples	744	0			0.002 - 0.006	NT
Asparagus	210	0			0.006 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	744	0			0.006 - 0.016	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002	NT
Oranges	744	3	0.4	0.010 - 0.012	0.006 - 0.010	0.3
Pinto Beans, Canned	372		0.4	0.010 - 0.012	0.003 - 0.006	NT
•		0 32	4.2	0.004 4.5		
Potatoes	744		4.3	0.004 - 1.5	0.003 - 0.006	1 N.T.
Spinach Strawbarrian	298	0			0.006 - 0.010	NT
Strawberries	744	0			0.006 - 0.016	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>739</u>	1	0.1	0.013 ^	0.006 - 0.010	0.1
TOTAL	7,406	36				
Aldrin (insecticide) (parent of						
Apples	744	0			0.003 - 0.007	0.03 AL
Asparagus	744				0.003 - 0.040	0.03 AL

Doosticido / Common altro	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Cilantro	184	0			0.007 ^	NT
Cucumbers	744	0			0.003 - 0.007	0.1 AL
Garbanzo Beans, Canned	186	0			0.003 ^	0.05 AL
Grapes	744	0			0.003 - 0.010	0.05 AL
Green Onions	558	0			0.007 ^	0.1 AL
Kidney Beans, Canned	186	0			0.003 ^	0.05 AL
Lettuce, Organic	387	0			0.010 ^	0.03 AL
Oranges	744	0			0.003 ^	0.02 AL
Pears	742	0			0.006 ^	0.03 AL
Pinto Beans, Canned	372	0			0.003 ^	0.05 AL
Potatoes	744	Ö			0.003 ^	0.1 AL
Spinach	298	0			0.003 ^	0.05 AL
Strawberries	744	Ö			0.003 - 0.010	0.05 AL
Sweet Corn, Fresh	668	Ö			0.003 - 0.040	0.02 AL
Sweet Corn, Frozen	75	0			0.003 - 0.040	0.02 AL
Sweet Com, Prozent	739	0				0.02 AL
					0.003 ^	-
Tomato Paste	<u>742</u>	<u>0</u>			0.013 ^	0.05 AL
TOTAL	10,345	0				
Allethrin (insecticide)						
Apples	210	0			0.015 ^	NT
Asparagus	744	0			0.015 - 0.030	NT
Cucumbers	210	0			0.015 ^	NT
Garbanzo Beans, Canned	186	0			0.015 - 0.020	NT
Grapes	744	0			0.015 - 0.030	NT
Kidney Beans, Canned	186	0			0.015 - 0.020	NT
Lettuce, Organic	387	Ö			0.020 ^	NT
Oranges	210	Ö			0.020	NT
Pears	742	0			0.15 ^	NT
	372					NT
Pinto Beans, Canned		0			0.015 - 0.020	
Potatoes	744	0			0.015 - 0.020	NT
Spinach	210	0			0.015 ^	NT
Strawberries	744	0			0.015 - 0.030	NT
Sweet Corn, Fresh	668	0			0.015 - 0.030	NT
Sweet Corn, Frozen	75	0			0.015 - 0.030	NT
Sweet Potatoes	210	0			0.015 ^	NT
Tomato Paste	<u>742</u>	<u>0</u>			0.48 ^	NT
TOTAL	7,384	0				
Ametryn (herbicide)						
Apples	210	0			0.015 ^	NT
Asparagus	210	Ö			0.015 ^	NT
Cucumbers	210	Ö			0.015 ^	NT
Garbanzo Beans, Canned	51				0.015 ^	NT
•	210	0			0.015 ^	NT
Grapes		0				
Kidney Beans, Canned	54	0			0.015 ^	NT
Oranges	744	0			0.010 - 0.015	NT
Pinto Beans, Canned	105	0			0.015 ^	NT
Potatoes	210	0			0.015 - 0.050	NT
Spinach	744	0			0.010 - 0.015	NT
Strawberries	210	0			0.015 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.050	0.25
Sweet Corn, Frozen	75	0			0.002 - 0.015	0.25
Sweet Potatoes	<u>739</u>	<u>0</u>			0.010 - 0.015	NT
TOTAL	4,440	0			0.010 0.010	
Amitraz (insecticide) Pears	<u>656</u>	Λ			0.013 ^	3.0
TOTAL	656	<u>0</u> <b>0</b>			0.010	5.0
	333	•				
Atrazine (herbicide)	E24	•			0.002 ^	NT
Apples Cucumbers (V-1)	534 534	0 1	0.2	0.003 ^	0.002 ^	NT NT

Posticido / Commodity	Number of	Samples with Detections	% of Samples with Detections	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples			Detected, ppm	ppm	Level, ppr
Green Onions (V-3)	558	3	0.5	0.003 - 0.007	0.002 ^	NT
Sweet Corn, Fresh	467	0			0.016 ^	0.20
Sweet Corn, Frozen	<u>67</u>	<u>0</u>			0.016 ^	0.20
TOTAL	2,160	4				
Azadirachtin A (insecticide) (is			4.0	0.011 0.12	0.040.4	ΓV
Lettuce, Organic	<u>387</u>	<u>7</u>	1.8	0.011 - 0.13	0.010 ^	EX
TOTAL	387	7				
Azadirachtin B (isomer of Azad Lettuce, Organic	irachtin) 387	<u>1</u>	0.3	0.039 ^	0.010 ^	EX
TOTAL	387	<u>+</u> 1	0.0	0.000	0.010	LX
Azinphos (insecticide)						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	-			0.003 ^	NT
		0			0.003 ^	
Oranges	210	0				NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,309	0				
Azinphos methyl (insecticide)						
Apples	744	133	17.9	0.005 - 0.73	0.003 - 0.012	1.5
Asparagus	744	0			0.003 - 0.020	NT
Cilantro	184	0			0.012 ^	NT
Cucumbers	744	0			0.003 - 0.012	2.0
Garbanzo Beans, Canned	186	Ö			0.003 ^	2.0
Grapes	744	14	1.9	0.002 - 0.11	0.002 - 0.003	4.0
Green Onions	558	0		*****	0.012 ^	2.0
Kidney Beans, Canned	186	0			0.003 ^	2.0
	387	0			0.067 ^	_
Lettuce, Organic		-				NT
Oranges	210	0	40.0	0.045 0.40	0.003 ^	2.0
Pears	742	91	12.3	0.015 - 0.18	0.009 ^	1.5
Pinto Beans, Canned	372	0			0.003 ^	2.0
Potatoes	744	0			0.003 ^	0.2
Spinach	633	0			0.003 - 0.011	2.0
Strawberries	744	0			0.002 - 0.005	2.0
Sweet Corn, Fresh	668	0			0.003 - 0.040	NT
Sweet Corn, Frozen	75	0			0.003 - 0.040	NT
Sweet Potatoes	210	0			0.003 ^	NT
Tomato Paste	<u>742</u>	<u>0</u>			0.028 ^	2.0
TOTAL	9,617	238				
Azinphos methyl oxygen analog	(motabolito o	f Azinnhas m	othyd)			
Aziripilos illetilyi oxygeri alialog	210	0	etilyi <i>)</i>		0.006 ^	1.5
Apples		0			0.006 - 0.010	NT
Apples Asparagus	744	0				
	744 210				0.006 ^	2.0
Asparagus Cucumbers	210	0				
Asparagus Cucumbers Garbanzo Beans, Canned	210 186	0 0			0.006 - 0.010	2.0
Asparagus Cucumbers Garbanzo Beans, Canned Grapes	210 186 210	0 0 0			0.006 - 0.010 0.006 ^	2.0 4.0
Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned	210 186 210 186	0 0 0 0			0.006 - 0.010 0.006 ^ 0.006 - 0.010	2.0 4.0 2.0
Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Lettuce, Organic	210 186 210 186 387	0 0 0 0			0.006 - 0.010 0.006 ^ 0.006 - 0.010 0.40 ^	2.0 4.0 2.0 NT
Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned	210 186 210 186	0 0 0 0			0.006 - 0.010 0.006 ^ 0.006 - 0.010	2.0 4.0 2.0

Doctions (Comments	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Potatoes	744	0			0.006 - 0.010	0.2
Spinach	210	0			0.006 ^	2.0
Strawberries	210	0			0.006 ^	2.0
Sweet Corn, Fresh	668	0			0.006 - 0.010	NT
Sweet Corn, Frozen	75	0			0.006 - 0.010	NT
Sweet Potatoes TOTAL	<u>210</u> <b>5,574</b>	<u>Ω</u> <b>0</b>			0.006 ^	NT
TOTAL	3,374	· ·				
Azoxystrobin (fungicide) Apples	744	0			0.001 - 0.006	NT
Asparagus	744	0 0			0.001 - 0.000	0.04
Cilantro	184	4	2.2	0.004 - 0.016	0.002 0.000	50
Cucumbers	744	50	6.7	0.003 - 0.049	0.001 - 0.003	0.3
Garbanzo Beans, Canned	186	0	0	0.000 0.010	0.002 - 0.003	0.5
Grapes	744	59	7.9	0.003 - 0.24	0.002 - 0.003	1.0
Green Onions	558	128	22.9	0.003 - 0.24	0.002 - 0.003	7.5
Kidney Beans, Canned	186	0	22.5	0.002 - 0.00	0.001	0.5
Oranges	744	0			0.002 ^	10.0
Pinto Beans. Canned	372	0			0.002 - 0.003	0.5
Potatoes (X-12)	744	60	8.1	0.003 - 0.41	0.002 - 0.003	0.03
Spinach	744	42	5.6	0.002 - 4.6	0.002 ^	30.0
Strawberries	744	. <u> </u>	10.3	0.003 - 0.96	0.002 - 0.003	10
Sweet Corn, Fresh	668	0	10.0	0.000 0.00	0.002 - 0.030	0.05
Sweet Corn, Frozen	75	0			0.002 - 0.030	0.05
Sweet Potatoes	739	0			0.002 ^	0.03
Tomato Paste	742	Z	0.9	0.011 - 0.022	0.007 - 0.013	0.6
TOTAL	9,662	427	0.0	0.011 0.022	0.007 0.010	0.0
Bendiocarb (insecticide)						
Apples	744	0			0.003 - 0.040	NT
Asparagus	210	0			0.003 - 0.040	NT
Cucumbers	744	0			0.003 - 0.040	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	744	0			0.003 - 0.004	NT
Green Onions	558	0			0.040 ^	NT
Kidney Beans, Canned	186	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.005	NT
Pinto Beans, Canned	372	0			0.003 ^	NT
Potatoes	744	0			0.003 ^	NT
Spinach	744	0			0.003 - 0.005	NT
Strawberries	744	0			0.003 - 0.003	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	739	0			0.003 - 0.005	NT
Tomato Paste	742	<u>0</u>			0.032 ^	NT
TOTAL	8,410	0			0.002	
Benomyl (fungicide)						
Sweet Corn, Fresh	467	0			0.016 ^	0.2
Sweet Corn, Frozen	407 <u>67</u>				0.016 ^	0.2
TOTAL	534	<u>0</u> <b>0</b>			0.010	0.2
IVIAL	J3 <del>4</del>	U				
Benoxacor (herbicide safener)						
Apples	744	0			0.002 - 0.006	NT
Asparagus	210	0			0.006 ^	0.01
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT 0.04
Garbanzo Beans, Canned	186	0			0.006 - 0.010	0.01
Grapes	744	0			0.006 - 0.024	NT
Green Onions	558	0			0.002 ^	0.1
Kidney Beans, Canned	186	0			0.006 - 0.010	0.01
Oranges	210	0			0.006 ^	NT 0.01
Pinto Beans, Canned	372	0			0.006 - 0.010	

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Potatoes	744	0		zotottou, pp	0.006 - 0.010	0.01
	210	0			0.006 - 0.010	0.01
Spinach	-					
Strawberries	744	0			0.006 - 0.024	NT
Sweet Corn, Fresh	668	0			0.006 - 0.020	0.01
Sweet Corn, Frozen	75	0			0.006 - 0.020	0.01
Sweet Potatoes	210	0			0.006 ^	0.01
Tomato Paste	<u>742</u>	Ω			0.034 ^	0.01
TOTAL	7,531	0				
Benthiavalicarb isopropyl (fung						
Grapes	534	0			0.001 ^	0.25
Strawberries	<u>534</u>	<u>0</u>			0.001 ^	NT
TOTAL	1,068	0				
BHC (alpha + beta) (insecticide	)					
Lettuce, Organic	<u>387</u>	<u>O</u>			0.010 ^	0.05 AL
TOTAL	387	0				
BHC alpha (isomer of BHC)						
Apples	744	0			0.002 - 0.007	0.05 AL
Asparagus	744	0			0.002 - 0.080	0.05 AL
Cilantro	152	0			0.022 - 0.045	NT
Cucumbers	744	0			0.002 - 0.007	0.05 AL
Garbanzo Beans, Canned	186	0			0.002 - 0.012	0.05 AL
Grapes	744	0			0.002 - 0.025	0.05 AL
Green Onions		0				
	558	-			0.007 ^	0.05 AL
Kidney Beans, Canned	186	0			0.002 - 0.012	0.05 AL
Oranges	744	0			0.002 - 0.003	0.05 AL
Pears	742	0			0.036 ^	0.05 AL
Pinto Beans, Canned	372	0			0.002 - 0.012	0.05 AL
Potatoes	744	0			0.002 - 0.012	0.05 AL
Spinach	298	0			0.002 - 0.003	0.05 AL
Strawberries	744	0			0.002 - 0.025	0.05 AL
Sweet Corn, Fresh	668	0			0.002 - 0.080	0.05 AL
Sweet Corn, Frozen	75	0			0.002 - 0.080	0.05 AL
Sweet Potatoes	739	0			0.002 - 0.003	0.05 AL
Tomato Paste	742	<u>0</u>			0.010 ^	0.05 AL
TOTAL	9,926	0				
BHC beta (isomer of BHC)						
Oranges	511	0			0.003 - 0.010	0.05 AL
Pears	742	0			0.034 ^	0.05 AL
Spinach	88	0			0.003 ^	0.05 AL
Sweet Potatoes	484	0			0.003 - 0.010	0.05 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.010 ^	0.05 AL
TOTAL	2,567	0				
Bifenazate (acaricide)						
Apples	210	0			0.042 ^	0.75
Asparagus	210	0			0.042 ^	NT
Cucumbers	210	0			0.042 ^	0.75
Garbanzo Beans, Canned	51	0			0.042 ^	0.73
Grapes	744	8	1.1	0.027 - 0.077	0.042	0.75
Kidney Beans, Canned	744 54	0	1.1	0.021 - 0.011	0.017 - 0.042	0.73
					0.042 ^	NT
Oranges	210	0				
Pinto Beans, Canned	105	0			0.042 ^	0.70
Potatoes	210	0			0.042 ^	0.05
Spinach	210	0			0.042 ^	NT
Strawberries	744	105	14.1	0.018 - 0.87	0.017 - 0.042	1.5
Sweet Corn, Fresh	201	0			0.042 ^	NT
Sweet Corn, Frozen	8	0			0.042 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.042 ^	0.10
TOTAL	3,377	113				

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Bifenthrin (insecticide)						
Apples	534	0			0.003 ^	0.05
Asparagus	744	0			0.012 - 0.020	0.05
Cilantro	184	3	1.6	0.022 - 0.037	0.010 ^	6.0
Cucumbers	744	59	7.9	0.005 - 0.078	0.003 - 0.012	0.4
Garbanzo Beans, Canned	186	0			0.008 - 0.012	0.05
Grapes	534	14	2.6	0.009 - 0.062	0.009 ^	0.2
Green Onions	558	2	0.4	0.005 - 0.029	0.003 ^	0.05
Kidney Beans, Canned	186	0			0.008 - 0.012	0.05
Lettuce, Organic	387	0			0.013 ^	3.0
Oranges	744	0			0.012 - 0.038	0.05
Pears	742	3	0.4	0.061 - 0.55	0.037 ^	0.5
Pinto Beans, Canned	372	0			0.008 - 0.012	0.05
Potatoes	744	1	0.1	0.014 ^	0.008 - 0.012	0.05
Spinach (X-2)	744	5	0.7	0.020 - 0.37	0.012 - 0.038	0.2
Strawberries	544	122	22.4	0.009 - 0.54	0.009 - 0.012	3.0
Sweet Corn, Fresh	668	0			0.012 - 0.020	0.05
Sweet Corn, Frozen	75	0			0.012 - 0.020	0.05
Sweet Potatoes (X-1)	738	2	0.3	0.046 - 0.11	0.012 - 0.020	0.05
Tomato Paste	742	Q	0.0	0.040 0.11	0.074 ^	0.15
TOTAL	10,170	211			0.07 4	0.10
TOTAL	10,170	211				
Bitertanol (fungicide)						
Oranges	534	0			0.010 ^	NT
Spinach	534	0			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,597	0				
Boscalid (fungicide)						
Apples	744	135	18.1	0.005 - 0.16	0.003 - 0.006	3.0
Asparagus	210	0			0.003 ^	NT
Cilantro (V-9)	184	9	4.9	0.010 ^	0.006 ^	NT
Cucumbers	744	66	8.9	0.005 - 0.069	0.003 - 0.020	0.5
Garbanzo Beans, Canned	186	0	0.0	0.000 0.000	0.003 ^	0.6
Grapes	744	277	37.2	0.005 - 0.63	0.003 - 0.040	3.5
Green Onions	558	5	0.9	0.003 - 0.03	0.006 - 0.020	3.0
Kidney Beans, Canned	186	2	1.1	0.010 - 0.17	0.006 - 0.020	0.6
• •	744	0	1.1	0.004 - 0.003	0.003	NT
Oranges	744 742		1.0	0.042 0.44		
Pears		14	1.9	0.042 - 0.14 0.005 ^	0.025 ^ 0.003 ^	3.0
Pinto Beans, Canned	372	11	3.0			0.6
Potatoes	744	58	7.8	0.003 - 0.015	0.003 ^	0.05
Spinach	744	93	12.5	0.005 - 0.073	0.003 - 0.010	60
Strawberries	744	270	36.3	0.005 - 1.8	0.003 - 0.020	4.5
Sweet Corn, Fresh	201	0			0.003 ^	0.20
Sweet Corn, Frozen	8	0			0.003 ^	0.20
Sweet Potatoes	739	0			0.003 - 0.010	0.05
Tomato Paste	<u>742</u>	<u>0</u>			0.090 ^	1.2
TOTAL	9,336	940				
Bromacil (herbicide)						
Apples	210	0			0.030 ^	NT
Asparagus	210	0			0.030 ^	NT
Cucumbers	210	0			0.030 ^	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.030	NT
Grapes	210	0			0.030 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.030	NT
Oranges	210				0.003 - 0.030	0.1
Pinto Beans, Canned	372	0			0.003 - 0.030	NT
•		0				NT NT
Potatoes	744	0			0.003 - 0.030	
Spinach	210	0			0.030 ^	NT
Strawberries	210	0 0			0.030 ^ 0.030 - 0.060	NT NT
Sweet Corn, Fresh	183					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Sweet Corn. Frozen	8	0		, рр	0.030 - 0.060	NT
Sweet Potatoes	2 <u>10</u>	<u>0</u>			0.030 ^	NT
TOTAL	3,359	0			0.030	IVI
Buprofezin (insecticide)						
Apples	744	3	0.4	0.002 - 0.035	0.001 - 0.021	4.0
Asparagus	210	0			0.021 ^	NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	5	0.7	0.002 - 0.010	0.001 - 0.030	0.50
Garbanzo Beans, Canned	186	0			0.001 - 0.021	0.02
Grapes	744	71	9.5	0.001 - 0.14	0.001 - 0.021	2.5
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.015 - 0.021	0.02
Oranges	744	0			0.010 - 0.030	2.5
Pears	742	33	4.4	0.067 - 0.74	0.040 ^	4.0
Pinto Beans, Canned	372	0			0.001 - 0.021	0.02
Potatoes (V-1)	744	1	0.1	0.004 ^	0.001 - 0.021	NT
Spinach	298	0			0.010 - 0.021	35
Strawberries	744	0			0.001 - 0.021	2.5
Sweet Corn, Fresh	167	0			0.021 ^	NT
Sweet Corn, Frozen	6	0			0.021 ^	NT
Sweet Potatoes	739	0			0.010 - 0.021	NT
Tomato Paste	<u>742</u>	<u>Q</u>			0.13 ^	1.3
TOTAL	8,854	113				
Captan (fungicide) (parent of						
Apples	210	18	8.6	0.020 - 0.44	0.012 ^	25.0
Grapes	744	2	0.3	0.080 - 0.12	0.012 - 0.19	25.0
Pears	742	6	0.8	0.087 - 0.86	0.016 - 0.20	25.0
Strawberries	744	317	42.6	0.020 - 7.5	0.012 - 0.19	20.0
Tomato Paste TOTAL	<u>742</u> 3,182	<u>0</u> <b>343</b>			0.047 ^	0.05
	3,102	J-3				
Carbaryl (insecticide) Apples	744	25	3.4	0.002 - 0.26	0.001 - 0.003	12
Asparagus	744	5	0.7	0.005 - 0.14	0.003 - 0.010	15
Cilantro	184	0			0.006 ^	NT
Cucumbers	744	15	2.0	0.004 - 0.58	0.001 - 0.003	3.0
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	744	5	0.7	0.001 - 0.049	0.001 - 0.003	10
Green Onions	542	0			0.003 - 0.006	NT
Kidney Beans, Canned	186	0			0.003 ^	NT
Lettuce, Organic	387	0			0.010 ^	10
Oranges	744	9	1.2	0.005 - 0.042	0.003 - 0.010	10
Pears	742	1	0.1	0.011 ^	0.007 ^	12
Pinto Beans, Canned	372	0			0.003 ^	NT
Potatoes	744	1	0.1	0.009 ^	0.003 ^	2.0
Spinach	744	1	0.1	0.066 ^	0.003 - 0.010	22
Strawberries	744	14	1.9	0.001 - 1.1	0.001 - 0.003	4.0
Sweet Corn, Fresh	668	0			0.003 - 0.010	0.1
Sweet Corn, Frozen	75	0			0.003 - 0.010	0.1
Sweet Potatoes	739	0			0.003 - 0.010	0.2
Tomato Paste	<u>742</u>	<u>0</u>			0.022 ^	5.0
TOTAL	10,775	76				
Carbendazim - MBC (fungicide	e) (metabolite o	f Benomyl)				
Apples	534	106	19.9	0.002 - 0.19	0.001 ^	7.0
Cilantro (V-4)	184	4	2.2	0.011 - 0.31	0.001 ^	NT
Cucumbers	534	88	16.5	0.002 - 0.10	0.001 ^	1.0
Grapes	534	13	2.4	0.002 - 0.011	0.002 ^	10.0
Green Onions	558	0			0.001 ^	NT
Oranges	534	1	0.2	0.026 ^	0.010 ^	10.0
Spinach	534	•	0		0.010 ^	0.2

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•						
Strawberries Sweet Potatoes	534	154	28.8	0.002 - 0.93	0.002 ^	5.0
TOTAL	<u>529</u> <b>4,475</b>	<u>0</u> <b>366</b>			0.010 ^	0.2
Carbofuran (insecticide) (pare	nt of 3-Hydroxy	carbofuran)				
Apples	744	0			0.001 - 0.003	NT
Asparagus (V-4)	744	4	0.5	0.010 - 0.15	0.003 - 0.010	NT
Cilantro (V-2)	184	2	1.1	0.52 - 1.3	0.006 ^	NT
Cucumbers	744	1	0.1	0.002 ^	0.001 - 0.003	0.2
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	744	0			0.001 - 0.003	0.2
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.003 ^	NT
Lettuce, Organic	387	0			0.010 ^	NT
Oranges	744	0			0.003 - 0.010	NT
Pears	744 742	0			0.005 - 0.010	NT
Pinto Beans, Canned	372	0			0.013 ^	NT
•					0.003 ^	
Potatoes	744	0				1 NT
Spinach	744	0			0.003 - 0.010	NT
Strawberries	744	0			0.001 - 0.003	0.2
Sweet Corn, Fresh	668	0			0.003 - 0.010	0.2
Sweet Corn, Frozen	75	0			0.003 - 0.010	0.2
Sweet Potatoes	<u>739</u>	<u>0</u>			0.003 - 0.010	NT
TOTAL	10,049	7				
Carbophenothion (insecticide)						
Apples	744	0			0.002 - 0.006	NT
Asparagus	210	0			0.006 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes	210	0			0.006 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.006 ^	NT
Oranges	210	0			0.006 ^	NT
Pinto Beans, Canned	105	0			0.006 ^	NT
Potatoes	210	Ö			0.006 ^	NT
Spinach	210	0			0.006 ^	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	201	-			0.006 ^	NT
	8	0			0.006 ^	NT
Sweet Corn, Frozen Sweet Potatoes		0			0.006 ^	NT
	<u>210</u>	0			0.006 ^	INI
TOTAL	4,119	0				
Carbophenothion methyl (insec		0			0.002.4	NIT
Apples	210	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	210	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	<u>0</u>			0.002 ^	NT
TOTAL	2,309	0				
Carboxin (fungicide)						
Apples	210	0			0.018 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppi
			20100110110	Dottoutou, pp	7.	
Cucumbers	210	0			0.018 ^	NT
Garbanzo Beans, Canned	51	0			0.018 ^	0.2
Kidney Beans, Canned	54	0			0.018 ^	0.2
Potatoes	210	0			0.018 - 0.030	NT
Spinach	210	0			0.018 ^	NT
Strawberries	210	0			0.018 ^	NT
Sweet Corn, Fresh	617	0			0.018 - 0.080	0.2
Sweet Corn, Frozen	72	Õ			0.018 - 0.080	0.2
Sweet Potatoes	<u>210</u>	Q			0.018 ^	NT
TOTAL	2,264	0			0.010	141
Carfentrazone (herbicide)						
Apples	744	0			0.002 - 0.015	0.10
· ·	210	0			0.002 ^	NT
Asparagus	-					
Cilantro	184	0			0.005 - 0.015	2.0
Cucumbers	744	0			0.002 - 0.005	0.10
Garbanzo Beans, Canned	186	0			0.002 - 0.005	0.10
Grapes	744	0			0.002 - 0.016	0.10
Green Onions	464	0			0.004 - 0.008	0.10
Kidney Beans, Canned	186	0			0.002 - 0.005	0.10
Oranges	744	0			0.002 - 0.008	0.10
Pears	742	0			0.019 ^	0.10
Pinto Beans, Canned	372	0			0.002 - 0.005	0.10
Potatoes	744	-			0.002 - 0.005	0.10
		0				
Spinach	722	0			0.002 - 0.015	0.10
Strawberries	744	0			0.002 - 0.016	0.10
Sweet Corn, Fresh	668	0			0.002 - 0.020	0.10
Sweet Corn, Frozen	75	0			0.002 - 0.020	0.10
Sweet Potatoes	739	0			0.002 - 0.008	0.10
Tomato Paste	742	<u>0</u>			0.061 ^	0.10
TOTAL	9,754	<u>v</u> 0			0.001	0.10
Chlorantraniliprole (insecticide)						
Apples	534	154	28.8	0.003 - 0.095	0.002 ^	0.30
Cilantro (V-23)	184	23	12.5	0.003 - 0.036	0.002 ^	NT
, ,	_					
Cucumbers	534	9	1.7	0.003 ^	0.002 ^	0.25
Green Onions	<u>558</u>	<u>0</u>			0.002 - 0.005	0.20
TOTAL	1,810	186				
Chlordane cis (insecticide) (ison		-				
Apples	744	0			0.001 - 0.002	0.1 AL
Asparagus	744	0			0.002 - 0.060	0.1 AL
• •			3.8	0.002 - 0.007		0.1 AL NT
Asparagus	744	0	3.8 2.2	0.002 - 0.007 0.002 - 0.014	0.002 - 0.060	0.1 AL NT
Asparagus Cilantro (V-7)	744 184	0 7			0.002 - 0.060 0.001 ^	0.1 AL NT 0.1 AL
Asparagus Cilantro (V-7) Cucumbers	744 184 744	0 7 16 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004	0.1 AL NT 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes	744 184 744 186 744	0 7 16 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions	744 184 744 186 744 558	0 7 16 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned	744 184 744 186 744 558 186	0 7 16 0 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic	744 184 744 186 744 558 186 387	0 7 16 0 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges	744 184 744 186 744 558 186 387 542	0 7 16 0 0 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears	744 184 744 186 744 558 186 387 542 742	0 7 16 0 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges	744 184 744 186 744 558 186 387 542	0 7 16 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears	744 184 744 186 744 558 186 387 542 742	0 7 16 0 0 0 0 0			0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned	744 184 744 186 744 558 186 387 542 742 372	0 7 16 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes	744 184 744 186 744 558 186 387 542 742 372 744	0 7 16 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries	744 184 744 186 744 558 186 387 542 742 372 744 210 744	0 7 16 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668	0 7 16 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.012	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75	0 7 16 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75	0 7 16 0 0 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060 0.002 - 0.060	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75 542 742	0 7 16 0 0 0 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Potatoes	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75	0 7 16 0 0 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060 0.002 - 0.060	0.1 AL NT 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL Chlordane trans (isomer of Chlor	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75 542 742 9,858	0 7 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060 0.002 - 0.060 0.002 - 0.005 0.001 ^	0.1 AL NT 0.1 AL 0.1 AL
Asparagus Cilantro (V-7) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste	744 184 744 186 744 558 186 387 542 742 372 744 210 744 668 75 542 742 9,858	0 7 16 0 0 0 0 0 0 0 0 0 0 0 0	2.2	0.002 - 0.014	0.002 - 0.060 0.001 ^ 0.001 - 0.002 0.002 - 0.004 0.002 - 0.012 0.001 ^ 0.002 - 0.004 0.010 ^ 0.002 - 0.005 0.032 ^ 0.002 - 0.004 0.002 - 0.004 0.002 ^ 0.002 - 0.012 0.002 - 0.060 0.002 - 0.060 0.002 - 0.060	0.1 AL NT 0.1 AL 0.1 AL

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Cilantro (V-2)	184	2	1.1	0.002 ^	0.001 ^	NT
Cucumbers	744	9	1.2	0.002 - 0.004	0.001 - 0.002	0.1 AL
Garbanzo Beans, Canned	186	0	1.2	0.002 - 0.004	0.001 - 0.002	0.1 AL
Grapes	744	0			0.002 - 0.004	0.1 AL
Green Onions		0				0.1 AL
	558				0.001 ^	
Kidney Beans, Canned	186	0			0.002 - 0.004	0.1 AL
Lettuce, Organic	387	0			0.010 ^	0.1 AL
Oranges	520	0			0.002 - 0.005	0.1 AL
Pears	742	0			0.032 ^	0.1 AL
Pinto Beans, Canned	372	0			0.002 - 0.004	0.1 AL
Potatoes	744	0			0.002 - 0.004	0.1 AL
Spinach	210	0			0.002 ^	0.1 AL
Strawberries	744	0			0.002 - 0.012	0.1 AL
Sweet Corn, Fresh	668	0			0.002 - 0.060	0.1 AL
Sweet Corn. Frozen	75	0			0.002 - 0.060	0.1 AL
Sweet Potatoes	520	0			0.002 - 0.005	0.1 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.011 ^	0.1 AL
TOTAL	9,814	≚ 11			0.011	O.T.AL
TOTAL	3,014	- 11				
Chlorethoxyfos (insecticide)						
Apples	744	0			0.001 - 0.002	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668				0.002 - 0.040	0.01
•	75	0				0.01
Sweet Corn, Frozen		0			0.002 - 0.040	
Sweet Potatoes	<u>210</u>	<u>Q</u>			0.002 ^	NT
TOTAL	3,911	0				
Chlorfenapyr (insecticide)						
Apples	534	0			0.002 ^	0.01
Asparagus	534	0			0.050 ^	0.01
Cilantro	184	0			0.008 ^	0.01
Cucumbers (X-1)	534	13	2.4	0.004 - 0.022	0.002 ^	0.01
Garbanzo Beans, Canned	135	0			0.006 ^	0.01
Green Onions	548	0			0.002 - 0.008	0.01
Kidney Beans, Canned	132	0			0.006 ^	0.01
Pears	742	Ö			0.027 ^	0.01
Pinto Beans, Canned	267	0			0.006 ^	0.01
Potatoes	534				0.006 ^	0.01
Sweet Corn, Fresh	467	0			0.050 ^	0.01
· ·		0				
Sweet Corn, Frozen	67	0			0.050 ^	0.01
Tomato Paste	<u>742</u>	<u>0</u>			0.084 ^	1.0
TOTAL	5,420	13				
Chlorfenvinphos (insecticide)						
Apples	744	0			0.003 - 0.004	NT
Asparagus	210	0			0.003 ^	NT
Cilantro	184	0			0.004 ^	NT
Cucumbers	744				0.004	NT
Garbanzo Beans, Canned	744 51	0			0.003 - 0.004	NT
•		0				
Grapes	210	0			0.003 ^	NT
Green Onions	558	0			0.004 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges Pinto Beans, Canned	210 105	0			0.003 ^ 0.003 ^	NT NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Dottootiloiio	Dotootou, pp		
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	Ω			0.003 ^	NT
TOTAL	4,119	0				
Chlorothalonil (fungicide)						
Apples	210	0			0.008 ^	NT
Garbanzo Beans, Canned	135	0			0.019 - 0.020	5
Grapes	210	0			0.008 ^	NT
Kidney Beans, Canned	132	0			0.019 ^	5
Oranges	534	Ö			0.003 ^	NT
Pinto Beans, Canned	267	0			0.019 ^	5
Potatoes	534	0			0.019 ^	0.1
Spinach (V-1)	511	1	0.2	0.017 ^	0.003 - 0.038	NT
. , ,			0.2	0.017		
Strawberries	210	0			0.008 ^	NT
Sweet Potatoes	529	0			0.003 ^	NT
Tomato Paste	<u>742</u>	<u>Q</u>			0.014 ^	5
TOTAL	4,014	1				
Chlorpropham (herbicide, grow	_ ,					
Apples (V-3)	744	3	0.4	0.010 - 0.031	0.006 - 0.018	NT
Asparagus	210	0			0.018 ^	NT
Cilantro	154	0			0.020 ^	NT
Cucumbers (V-5)	744	5	0.7	0.010 - 0.030	0.006 - 0.018	NT
Garbanzo Beans, Canned	186	0			0.010 - 0.012	NT
Grapes	210	0			0.018 ^	NT
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.010 - 0.012	NT
Oranges	722	0			0.021 - 0.038	NT
Pinto Beans, Canned	372	0			0.010 - 0.012	NT
Potatoes	744	596	80.1	0.010 - 23	0.010 - 0.012	30
			OU. I	0.010 - 23		
Spinach	744	0			0.018 - 0.038	NT
Strawberries	210	0			0.018 ^	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes (V-2)	<u>739</u>	2	0.3	0.020 ^	0.012 - 0.038	NT
TOTAL	6,732	606				
Chlorpyrifos (insecticide)						
Apples	744	7	0.9	0.002 - 0.14	0.001 - 0.002	0.1
Asparagus	744	19	2.6	0.004 - 0.81	0.002 - 0.020	5.0
Cilantro (X-1)	184	68	37.0	0.002 - 0.31	0.001 ^	0.1
Cucumbers	744	26	3.5	0.002 - 0.10	0.001 - 0.002	0.1
Garbanzo Beans, Canned	186	0	2.0		0.002 - 0.025	0.1
Grapes	744	9	1.2	0.004 - 0.019	0.002 - 0.023	0.1
Green Onions	558	7	1.3	0.004 0.013	0.002 0.010	0.1
	186		1.5	0.002 - 0.001	0.001 ^	0.1
Kidney Beans, Canned		0				
Lettuce, Organic	387	0		0.004 0.555	0.013 ^	1.0
Oranges	744	6	0.8	0.004 - 0.008	0.002 - 0.003	1.0
Pears	742	7	0.9	0.005 - 0.015	0.003 ^	0.1
Pinto Beans, Canned	372	0			0.002 - 0.025	0.1
Potatoes	744	0			0.002 - 0.025	0.1
Spinach	744	15	2.0	0.004 - 0.061	0.002 - 0.004	0.1
Strawberries	744	10	1.3	0.004 - 0.042	0.002 - 0.010	0.2
Sweet Corn, Fresh	668	0		-	0.002 - 0.020	0.1
					0.002 - 0.020	0.1
Sweet Corn, Frozen	/5	Λ			U.UUZ - U.UZU	
Sweet Corn, Frozen Sweet Potatoes	75 739	0 21	28	0.004 - 0.024		
Sweet Corn, Frozen Sweet Potatoes Tomato Paste	75 739 <u>742</u>	0 21 <u>0</u>	2.8	0.004 - 0.024	0.002 - 0.020 0.002 - 0.003 0.009 ^	0.1 0.1 0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppr
	-		Detections	Detected, ppin	ррш	Level, ppi
Chlorpyrifos oxygen analog	•				0.000.4	0.4
Apples	210	0			0.006 ^	0.1
Asparagus	744	0			0.006 - 0.010	5.0
Cucumbers	210	0			0.006 ^	0.1
Garbanzo Beans, Canned	186	0			0.002 - 0.006	0.1
Grapes	678	0			0.006 - 0.018	0.1
Kidney Beans, Canned	186	0			0.002 - 0.006	0.1
Lettuce, Organic	387	0			0.20 ^	1.0
Oranges	210	0			0.006 ^	1.0
Pears	742	0			0.005 ^	0.1
Pinto Beans, Canned	372	0			0.002 - 0.006	0.1
Potatoes	744	1	0.1	0.003 ^	0.002 - 0.006	0.1
Spinach	210	0			0.006 ^	0.1
Strawberries	744	0			0.006 - 0.018	0.2
Sweet Corn, Fresh	668	0			0.006 - 0.010	0.1
Sweet Corn, Frozen	75	0			0.006 - 0.010	0.1
Sweet Com, 1102em	210	<u>0</u>			0.006 ^	0.1
TOTAL	6,576	<u>u</u> 1			0.000	0.1
TOTAL	0,570	'				
Clethodim (herbicide)						
Apples	534	0			0.002 - 0.015	NT
Cilantro	184	0			0.002 ^	12.0
Cucumbers	534	0			0.002 ^	0.50
Green Onions	558	0			0.002 ^	2.0
Tomato Paste	<u>742</u>	<u>0</u>			0.10 ^	3
TOTAL	2,552	<u>v</u> 0			0.10	J
	,					
Clofentezine (insecticide)						
Apples	210	0			0.012 ^	0.5
Asparagus	210	0			0.012 ^	NT
Cucumbers	210	0			0.012 ^	NT
Garbanzo Beans, Canned	51	0			0.012 ^	NT
Grapes	210	0			0.012 ^	1.0
Kidney Beans, Canned	54	0			0.012 ^	NT
Oranges	210	0			0.012 ^	NT
Pears	742	0			0.094 ^	0.5
Pinto Beans, Canned	105	0			0.012 ^	NT
Potatoes	210	0			0.012 ^	NT
	210	0			0.012 ^	NT
Spinach						
Strawberries	210	0			0.012 ^	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.012 ^	NT
TOTAL	3,051	0				
Clomazone (herbicide)						
Apples	744	0			0.002 - 0.009	NT
Asparagus	210	0			0.009 ^	NT
Cilantro	184	0			0.009 ^	NT
Cucumbers	744					0.1
		0			0.002 - 0.009	
Garbanzo Beans, Canned	186	0			0.005 - 0.009	0.05
Grapes	210	0			0.009 ^	NT
Green Onions	558	0			0.008 ^	NT
Kidney Beans, Canned	186	0			0.005 - 0.009	0.05
Oranges	744	0			0.009 - 0.015	NT
Pinto Beans, Canned	372	0			0.005 - 0.009	0.05
Potatoes	744	0			0.005 - 0.032	NT
Spinach	744	0			0.009 - 0.075	NT
Strawberries	210	0			0.009 ^	NT
Sweet Corn, Fresh	201	0			0.009 ^	NT
Sweet Corn, Frozen	8	0			0.009 ^	NT
					0.000	
Sweet Com, 1102em	<u>739</u>	<u>0</u>			0.009 - 0.032	0.05

Posticido / Commoditi	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Clopyralid (herbicide)		_				
Grapes	534	0			0.10 ^	NT
Strawberries TOTAL	<u>534</u> <b>1,068</b>	<u>0</u> <b>0</b>			0.10 ^	1.0
· • · · · · ·	1,000	•				
Clothianidin (insecticide) (alse Apples	o a metabolite o 210		am)		0.003 ^	1.0
• •	210	0			0.003 ^	NT
Asparagus Cucumbers	210	0 8	3.8	0.005 - 0.012	0.003 ^	0.2
	186		3.0	0.005 - 0.012		
Garbanzo Beans, Canned	744	0	4.0	0.002 0.24	0.003 - 0.010	0.02
Grapes		36	4.8	0.003 - 0.34	0.003 ^	0.60
Kidney Beans, Canned	186	0			0.003 - 0.010	0.01
Lettuce, Organic	387	0			0.050 ^	4.0
Oranges	744	0			0.003 - 0.010	0.40
Pears	742	27	3.6	0.030 ^	0.018 ^	1.0
Pinto Beans, Canned	372	0			0.003 - 0.010	0.02
Potatoes	744	24	3.2	0.005 - 0.029	0.003 - 0.010	0.05
Spinach	744	9	1.2	0.013 - 0.068	0.003 - 0.010	4.0
Strawberries	744	0			0.003 ^	0.3
Sweet Corn, Fresh	668	0			0.003 - 0.020	0.02
Sweet Corn, Frozen	75	0			0.003 - 0.020	0.02
Sweet Potatoes	739	0			0.003 - 0.010	0.02
Tomato Paste	742	ũ			0.029 - 0.058	0.25
TOTAL	8,447	104			0.020 0.000	0.20
•						
Coumaphos (insecticide) Apples	744	0			0.003 - 0.006	NT
	210	0			0.003 - 0.006	NT
Asparagus	-					
Cilantro	184	0			0.006 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.015	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>716</u>	<u>0</u>			0.003 - 0.015	NT
TOTAL	5,159	0			0.000 0.0.0	
Caumanhaa ayugan analag (m	atabalita of Co.	ımanhaa\				
Coumaphos oxygen analog (m Apples	534	umapnos) O			0.008 ^	NT
Cilantro	184	0			0.008 ^	NT
Cucumbers	534	0			0.008 ^	NT
Green Onions	<u>558</u>	<u>0</u>			0.008 ^	NT
TOTAL	1,810	<u>u</u> 0			3.000	141
	•					
Crotoxyphos (insecticide, acai Apples	ricide) 210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	210 51				0.003 ^	NT
· · · · · · · · · · · · · · · · · · ·		0				
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
•						
Potatoes	210	0			0.003 ^	NT
· ·	210 210 210				0.003 ^ 0.003 - 0.010 0.003 ^	NT NT NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Detections	Detected, ppin		
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,309	0				
Crufomate (insecticide)						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	Q			0.003 ^	NT
TOTAL	2,309	0				
Cyazofamid (fungicide)						
Grapes	534	0			0.010 ^	1.5
Strawberries	534	Ö			0.010 ^	NT
Tomato Paste	742	<u>0</u>			0.032 ^	0.20
TOTAL	1,810	0			0.032	0.20
Cyfluthrin (insecticide)						
Apples	744	0			0.030 - 0.27	0.5
Asparagus	744				0.030 - 0.27	0.05
Cucumbers	744	0			0.030 - 0.030	0.03
		0				
Garbanzo Beans, Canned	186	0			0.002 - 0.030	0.05
Grapes	744	0			0.030 - 0.11	1.0
Green Onions	558	0			0.041 - 0.14	0.05
Kidney Beans, Canned	186	0			0.002 - 0.030	0.05
Lettuce, Organic	387	0			0.040 ^	3.0
Oranges	744	0			0.030 - 0.075	0.2
Pears	742	0			0.069 ^	0.5
Pinto Beans, Canned	372	0			0.002 - 0.030	0.05
Potatoes	744	0			0.002 - 0.030	0.05
Spinach	744	52	7.0	0.050 - 1.8	0.030 - 0.075	6.0
Strawberries	744	0			0.030 - 0.11	0.05
Sweet Corn, Fresh	668	0			0.030 - 0.25	0.05
Sweet Corn, Frozen	75	0			0.030 - 0.25	0.05
Sweet Potatoes	738	0			0.030 - 0.075	0.05
Tomato Paste	<u>742</u>	<u>0</u>			0.16 ^	0.5
TOTAL	10,606	52				
Cyhalothrin, Total (Cyhalothrin-	L + R157836 en	oimer) (insect	icide)			
Apples	534	2	0.4	0.030 - 0.060	0.020 ^	0.30
Asparagus (X-2)	534	2	0.4	0.041 - 0.044	0.025 ^	0.01
Cucumbers	534	1	0.2	0.010 ^	0.006 ^	0.05
Garbanzo Beans, Canned	135	0	-		0.001 ^	0.01
Grapes	534	0			0.020 ^	0.01
Green Onions (X-1)	558	1	0.2	0.027 ^	0.006 - 0.040	0.01
Kidney Beans, Canned	132	0	U	5.021	0.001 ^	0.01
a.io, Douilo, Outillou	387	0			0.040 ^	2.0
	301	U				
Lettuce, Organic		^			() ()50 /	(1111
Lettuce, Organic Oranges	534	0			0.050 ^	0.01
Lettuce, Organic Oranges Pinto Beans, Canned	534 267	0			0.001 ^	0.20
Lettuce, Organic Oranges	534		0.2	0.40 ^		

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
	•		Detections	Detected, ppm	ppm	
Sweet Corn, Fresh	467	0			0.025 ^	0.05
Sweet Corn, Frozen	67	0			0.025 ^	0.05
Sweet Potatoes	<u>528</u>	<u>0</u>			0.050 ^	0.02
TOTAL	6,791	7				
Cyhalothrin, Lambda (includes	_					
Apples	210	3	1.4	0.010 ^	0.006 ^	0.30
Asparagus	210	0			0.006 ^	0.01
Cucumbers	210	0			0.006 ^	0.05
Garbanzo Beans, Canned	51	0			0.006 ^	0.01
Grapes	210	0			0.006 ^	0.01
Kidney Beans, Canned	54	0			0.006 ^	0.01
Oranges	210	0			0.006 ^	0.01
Pears	742	0			0.038 ^	0.30
Pinto Beans, Canned	105	0			0.006 ^	0.01
Potatoes	210	0			0.006 ^	0.02
Spinach (X-3)	210	6	2.9	0.010 - 0.088	0.006 ^	0.01
Strawberries	210	0	2.0	0.010 0.000	0.006 ^	0.01
Sweet Corn, Fresh	201	0			0.006 ^	0.01
Sweet Corn, Frozen	8				0.006 ^	0.05
•		0			0.006 ^	
Sweet Potatoes	210	0				0.02
Tomato Paste TOTAL	<u>742</u> <b>3,793</b>	<u>0</u> <b>9</b>			0.10 ^	0.20
TOTAL	3,193	3				
Cyhalothrin, Lambda epimer R1		-		0.040.4	0.000 4	0.00
Apples	210	1	0.5	0.010 ^	0.006 ^	0.30
Asparagus	210	1	0.5	0.010 ^	0.006 ^	0.01
Cucumbers	210	0			0.006 ^	0.05
Garbanzo Beans, Canned	51	0			0.006 ^	0.01
Grapes	210	0			0.006 ^	0.01
Kidney Beans, Canned	54	0			0.006 ^	0.01
Oranges	210	0			0.006 ^	0.01
Pears	742	0			0.037 ^	0.30
Pinto Beans, Canned	105	0			0.006 ^	0.01
Potatoes	210	0			0.006 ^	0.02
Spinach	210	2	1.0	0.010 ^	0.006 ^	0.01
Strawberries	210	0		0.0.0	0.006 ^	0.01
Sweet Corn, Fresh	201	0			0.006 ^	0.05
Sweet Corn, Frozen	8	0			0.006 ^	0.05
•						
Sweet Potatoes	210	0			0.006 ^	0.02
Tomato Paste TOTAL	<u>742</u> 3,793	<u>0</u> <b>4</b>			0.11 ^	0.20
	0,100	•				
Cymoxanil (fungicide) Tomato Paste	<u>742</u>	<u>0</u>			0.048 - 0.065	0.2
TOTAL	742	0			0.010 0.000	0.2
Cypermethrin (insecticide)						
Apples	744	0			0.030 - 0.051	2
Apples Asparagus	744 744	0			0.030 - 0.066	0.05
		0	0.0	0.000 *		
Cucumbers	744	2	0.3	0.086 ^	0.030 - 0.34	0.2
Garbanzo Beans, Canned	186	0			0.002 - 0.030	0.1
Grapes	744	0			0.030 - 0.11	2
Green Onions	558	13	2.3	0.17 - 0.54	0.17 ^	6.0
Kidney Beans, Canned	186	0			0.002 - 0.030	0.1
Lettuce, Organic	387	1	0.3	0.060 ^	0.040 ^	10.00
Oranges	744	0			0.030 - 0.075	0.35
Pears	742	0			0.066 ^	2
	372	0			0.002 - 0.030	0.1
Pinto Beans, Canned		•				
•	744	Λ			U,UUZ - U.U.SU	U, I
Potatoes	744 744	0 155	20.8	0.050 - 3.2	0.002 - 0.030 0.030 - 0.075	0.1 10.00
•	744 744 744	0 155 0	20.8	0.050 - 3.2	0.002 - 0.030 0.030 - 0.075 0.030 - 0.11	10.00 0.8

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
	•		Detections	Detected, ppin		
Sweet Corn, Frozen	75 700	0	0.4	0.004	0.030 - 0.066	0.05
Sweet Potatoes (X-1)	738	1	0.1	0.22 ^	0.030 - 0.075	0.1
Tomato Paste	<u>742</u>	<u>0</u>			0.17 ^	0.2
TOTAL	10,606	172				
Cyphenothrin (insecticide)						
Apples	210	0			0.030 ^	NT
Asparagus	744	0			0.030 - 0.040	NT
Cucumbers	210	0			0.030 ^	NT
Garbanzo Beans, Canned	186	0			0.005 - 0.030	NT
Grapes	744	0			0.015 - 0.030	NT
Kidney Beans, Canned	186	0			0.005 - 0.030	NT
Lettuce, Organic	387	0			0.040 ^	NT
Oranges	210	0			0.030 ^	NT
Pears	742	0			0.040 ^	NT
Pinto Beans, Canned	372	0			0.005 - 0.030	NT
Potatoes	744	0			0.005 - 0.030	NT
Spinach	210	0			0.030 ^	NT
Strawberries	744	0			0.015 - 0.030	NT
Sweet Corn, Fresh	668	0			0.030 - 0.040	NT
Sweet Corn, Frozen	75	0			0.030 - 0.040	NT
Sweet Potatoes	210	<u>0</u>			0.030 ^	NT
TOTAL	6,642	0				
Cyprodinil (fungicide)						
Apples	210	0			0.009 ^	0.1
Asparagus	210	0			0.009 - 0.021	NT
Cucumbers	210	0			0.009 - 0.021	0.70
Garbanzo Beans, Canned	51	0			0.009 ^	0.70
Grapes (X-1)	744	167	22.4	0.015 - 2.3	0.009 - 0.020	2.0
Kidney Beans, Canned	54		22.4	0.013 - 2.3	0.009 ^	0.6
Lettuce, Organic	387	0			0.009 ^	30
Oranges	210	0 0			0.018 ^	NT
Pears	742				0.018 ^	0.1
Pinto Beans, Canned	105	0			0.009 ^	0.1
•		0				NT
Potatoes	210 678	0			0.009 - 0.018	NT
Spinach		0	20.6	0.045 4.6	0.008 - 0.009	
Strawberries	744	220	29.6	0.015 - 1.6	0.009 - 0.020	5.0
Sweet Corn, Fresh	201	0			0.009 ^	NT
Sweet Corn, Frozen	8	0			0.009 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.009 ^	NT
TOTAL	4,974	387				
Cyromazine (insect growth regu						
Cucumbers	534	57	10.7	0.004 - 0.077	0.002 ^	1.0
Green Onions	<u>558</u>	<u>63</u>	11.3	0.008 - 0.23	0.008 ^	3.0
TOTAL	1,092	120				
DCPA (herbicide)						
Apples	534	0			0.001 ^	NT
Asparagus (V-1)	210	1	0.5	0.010 ^	0.003 ^	NT
Cilantro	184	135	73.4	0.002 - 0.16	0.001 ^	5.0
Cucumbers	744	1	0.1	0.012 ^	0.001 - 0.003	1.0
Garbanzo Beans, Canned	186	0			0.001 - 0.003	2.0
Grapes	534	0			0.004 ^	NT
Green Onions	558	204	36.6	0.002 - 0.13	0.001 ^	1.0
Kidney Beans, Canned	186	0	-		0.001 - 0.003	2.0
Oranges	744	0			0.003 - 0.008	NT
Pinto Beans, Canned	372	0			0.001 - 0.003	2.0
					0.001 - 0.003	2.0
	/4/	Λ				
Potatoes	744 722	0 6	N 8	0 005 - 0 000		
	744 722 534	0 6 0	0.8	0.005 - 0.009	0.001 - 0.003 0.003 - 0.008 0.004 ^	NT 2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Detections	Detected, ppm	ppm	
Sweet Corn, Frozen	75	0			0.003 - 0.020	0.05
Sweet Potatoes	739	0			0.003 - 0.008	2.0
Tomato Paste	742	<u>0</u>			0.019 ^	1.0
TOTAL	8,476	347				
DDD o,p' (metabolite of DDT)						
Apples	520	0			0.001 ^	0.1 AL
Cilantro (V-2)	184	2	1.1	0.002 ^	0.001 ^	NT
Cucumbers	534	0			0.001 ^	0.1 AL
Green Onions	528	0			0.001 ^	0.2 AL
Lettuce, Organic	<u>387</u>	<u>0</u>			0.010 - 0.020	0.5 AL
TOTAL	2,153	2				
DDD p,p' (metabolite of DDT)						
Apples	744	0			0.001 - 0.004	0.1 AL
Asparagus	744	0			0.004 - 0.030	0.5 AL
Cilantro (V-15)	106	15	14.2	0.002 ^	0.001 ^	NT
Cucumbers	744	0			0.001 - 0.004	0.1 AL
Garbanzo Beans, Canned	186	0			0.004 - 0.007	0.2 AL
Grapes	744	0			0.004 - 0.011	0.05 AL
Green Onions	548	0			0.001 ^	0.2 AL
Kidney Beans, Canned	186	0			0.004 - 0.007	0.2 AL
Oranges	744	0			0.003 - 0.010	0.1 AL
Pears	742	0			0.068 ^	0.1 AL
Pinto Beans, Canned	372	0			0.004 - 0.007	0.2 AL
Potatoes	744	0			0.004 - 0.007	1 AL
Spinach	298	0			0.003 - 0.004	0.5 AL
Strawberries	744	0			0.004 - 0.011	0.1 AL
Sweet Corn, Fresh	668	0			0.004 - 0.030	0.1 AL
Sweet Corn, Frozen	75	0			0.004 - 0.030	0.1 AL
Sweet Potatoes	739	0			0.003 - 0.004	1 AL
Tomato Paste	<u>742</u>	Ω			0.017 ^	0.05 AL
TOTAL	9,870	15				
DDE p,p' (metabolite of DDT)						
Apples	744	0			0.002 - 0.004	0.1 AL
Asparagus	744	1	0.1	0.007 ^	0.004 - 0.015	0.5 AL
Cilantro (V-36)	184	36	19.6	0.007 - 0.032	0.006 ^	NT
Cucumbers	744	0			0.002 - 0.004	0.1 AL
Garbanzo Beans, Canned	186	0			0.004 - 0.010	0.2 AL
Grapes	722	0			0.004 - 0.007	0.05 AL
Green Onions	558	12	2.2	0.003 ^	0.002 ^	0.2 AL
Kidney Beans, Canned	186	0			0.004 - 0.010	0.2 AL
Lettuce, Organic	189	1	0.5	0.034 ^	0.010 ^	0.5 AL
Oranges	298	0			0.003 - 0.004	0.1 AL
Pears	742	0			0.063 ^	0.1 AL
Pinto Beans, Canned	372	0			0.004 - 0.010	0.2 AL
Potatoes	744	7	0.9	0.007 - 0.042	0.004 - 0.010	1 AL
Spinach	298	62	20.8	0.007 - 0.035	0.003 - 0.004	0.5 AL
Strawberries	744	0			0.004 - 0.007	0.1 AL
Sweet Corn, Fresh	668	0			0.004 - 0.015	0.1 AL
Sweet Corn, Frozen	75	0			0.004 - 0.015	0.1 AL
Sweet Potatoes	320	1	0.3	0.007 ^	0.003 - 0.004	1 AL
Tomato Paste	<u>742</u>	<u>0</u>	- · <del>-</del>		0.018 ^	0.05 AL
TOTAL	9,260	1 <u>2</u> 0				3.307.12
DDT o,p' (insecticide)						
Apples	534	0			0.001 ^	0.1 AL
Cilantro (V-47)	184	47	25.5	0.002 - 0.006	0.001 ^	NT
Cucumbers	534	6	1.1	0.002 - 0.000	0.001 ^	0.1 AL
	JJ-1	J	1.1	0.002 0.017		
Green Onions	<u>558</u>	<u>0</u>			0.001 ^	0.2 AL

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
DDT p,p' (insecticide)						
Apples	714	0			0.002 - 0.004	0.1 AL
Asparagus	210	0			0.004 ^	0.5 AL
Cucumbers	744	0			0.002 - 0.006	0.1 AL
Garbanzo Beans, Canned	164	0			0.004 - 0.049	0.2 AL
Grapes	744	0			0.004 - 0.038	0.05 AL
Green Onions	558	5	0.9	0.003 ^	0.002 ^	0.2 AL
Kidney Beans, Canned	164	0	0.0	0.000	0.004 - 0.007	0.2 AL
Oranges	722	0			0.003 - 0.004	0.1 AL
Pears	742	0			0.010 ^	0.1 AL
Pinto Beans, Canned	372	0			0.004 - 0.007	0.1 AL
Potatoes	699	4	0.6	0.007 ^	0.004 - 0.007	1 AL
			4.8	0.007 ^		
Spinach	210	10	4.8	0.007 ^	0.004 ^	0.5 AL
Strawberries	744	0			0.004 - 0.038	0.1 AL
Sweet Corn, Fresh	201	0			0.004 ^	0.1 AL
Sweet Corn, Frozen	8	0			0.004 ^	0.1 AL
Sweet Potatoes	232	0			0.004 - 0.20	1 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.033 ^	0.05 AL
TOTAL	7,970	19				
DEF - Tribufos (herbicide, plar		-			0.000 4	NIT
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,309	0			0.000	INI
	_,	•				
Deltamethrin (includes parent	Tralomethrin) (	insecticide)				
Apples	345	0			0.015 - 0.080	0.2
Asparagus	744	0			0.015 - 0.050	0.05
Cucumbers	345	1	0.3	0.025 ^	0.015 - 0.080	0.2
Garbanzo Beans, Canned	186	0			0.009 - 0.015	0.05
Grapes	744	0			0.015 - 0.12	0.05
Kidney Beans, Canned	186	0			0.009 - 0.015	0.05
Lettuce, Organic	387	0			0.13 ^	0.05
Oranges	744	0			0.015 - 0.075	0.05
Pears	742	0			0.14 ^	0.2
Pinto Beans, Canned	372	_			0.009 - 0.015	0.2
-		0				
Potatoes	744	0			0.009 - 0.015	0.04
Spinach	744	0			0.015 - 0.075	0.05
Strawberries	744	0			0.015 - 0.059	0.05
Sweet Corn, Fresh	668	0			0.015 - 0.10	0.03
**	75	0			0.015 - 0.10	0.03
Sweet Corn, Frozen	75				0.015 - 0.075	0.04
Sweet Corn, Frozen Sweet Potatoes	738	0				1.0
Sweet Corn, Frozen Sweet Potatoes Tomato Paste	738 <u>742</u>	0 <u>0</u>			0.46 ^	1.0
Sweet Corn, Frozen Sweet Potatoes	738				0.46 ^	1.0
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL	738 <u>742</u> <b>9,250</b>	<u>0</u> 1			0.46 ^	1.0
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Demeton-O (metabolite of the	738 <u>742</u> <b>9,250</b> insecticide Dem	<u>0</u> 1 neton)				
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Demeton-O (metabolite of the Apples	738 742 9,250 insecticide Dem 210	0 1 neton) 0			0.002 ^	NT
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Demeton-O (metabolite of the Apples Asparagus	738 742 <b>9,250</b> insecticide Dem 210 210	0 1 neton) 0 0			0.002 ^ 0.002 ^	NT NT
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Demeton-O (metabolite of the Apples Asparagus Cucumbers	738 742 <b>9,250</b> insecticide Dem 210 210 210	0 1 neton) 0 0			0.002 ^ 0.002 ^ 0.002 ^	NT NT NT
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Demeton-O (metabolite of the Apples Asparagus	738 742 <b>9,250</b> insecticide Dem 210 210	0 1 neton) 0 0			0.002 ^ 0.002 ^	NT NT

Posticido / Commoditu	Number of	Samples with Detections	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples		Detections	Detected, ppm	ppm	Level, ppr
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	Q			0.002 ^	NT
TOTAL	2,309	0				
Demeton-S (metabolite of Dem	eton)					
Apples	210	0			0.002 ^	NT
Asparagus	210	Ö			0.002 ^	NT
Cucumbers	210	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
•						
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	<u>0</u>			0.002 ^	NT
TOTAL	2,309	0			0.002	111
Desmedipham (herbicide)						
Apples	210	0			0.003 ^	NT
Asparagus	210				0.003 ^	NT
		0				
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	Ö			0.003 ^	6.0
Sweet Corn, Fresh	201	0			0.003 ^	NT
·		-				NT
Sweet Corn, Frozen TOTAL	<u>8</u> 1,889	<u>0</u> <b>0</b>			0.003 ^	IN I
TOTAL	1,009	U				
Diazinon (insecticide)	744	63	8.5	0.002 - 0.11	0.001 - 0.002	0.50
Apples			0.0	0.002 - 0.11		
Asparagus	210	0			0.001 ^	NT
Cilantro (V-24)	184	24	13.0	0.003 - 1.0	0.002 ^	NT
Cucumbers	744	3	0.4	0.012 - 0.018	0.001 - 0.002	0.75
Garbanzo Beans, Canned	186	0			0.001 - 0.005	0.50
Grapes	743	0			0.001 - 0.010	0.75
Green Onions	558	3	0.5	0.003 - 0.008	0.002 ^	0.75
Kidney Beans, Canned	186	0			0.001 - 0.005	0.50
Oranges	744	Ö			0.001 - 0.002	NT
Pears	742	2	0.3	0.005 - 0.026	0.003 ^	0.50
		0	0.5	0.000 - 0.020		
Pinto Beans, Canned	372				0.001 - 0.005	0.50
Potatoes	744	0	2.2	0.000 0.000	0.001 - 0.005	0.10
Spinach	744	2	0.3	0.002 - 0.009	0.001 - 0.005	0.70
Strawberries	744	0			0.001 - 0.010	0.50
Sweet Corn, Fresh	668	0			0.001 - 0.010	NT
Owect Oom, Fresh						NT
Sweet Corn, Frozen	75	0			0.001 - 0.010	INI
•	75 739					
Sweet Corn, Frozen		0 0 <u>0</u>			0.001 - 0.010 0.001 - 0.002 0.011 ^	0.10 0.75

Pacticida / Common all'	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Diazinon oxygen analog (metal		,				
Apples	744	0			0.002 - 0.003	0.50
Asparagus	210	0			0.002 ^	NT
Cilantro (V-1)	184	1	0.5	0.005 ^	0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	0.75
Garbanzo Beans, Canned	186	0			0.002 - 0.005	0.50
Grapes	744	0			0.002 - 0.030	0.75
Green Onions	558	0			0.003 ^	0.75
Kidney Beans, Canned	186	0			0.002 - 0.005	0.50
Oranges	744	0			0.001 - 0.002	NT
Pears	742	0			0.014 ^	0.50
Pinto Beans, Canned	372	0			0.002 - 0.005	0.50
Potatoes	744	0			0.002 - 0.005	0.10
Spinach	744	Ö			0.001 - 0.002	0.70
Strawberries	744	0			0.002 - 0.030	0.50
Sweet Corn, Fresh	668	0			0.002 ^	NT
Sweet Corn, Frozen	75	0			0.002 ^	NT
Sweet Potatoes	739	0			0.002	0.10
		_				
Tomato Paste	742	<u>0</u>			0.047 ^	0.75
TOTAL	9,870	1				
Dicamba (herbicide)						
Grapes	534	0			0.074 - 0.15	NT
Strawberries	534	Q			0.074 - 0.15	NT
TOTAL	1,068	Ö				
Dichlobenil (herbicide)						
Apples	744	0			0.005 - 0.019	0.5
Asparagus	210	0			0.005 ^	NT
Cilantro	184	0			0.019 ^	NT
Cucumbers	744	0			0.005 - 0.019	NT
Garbanzo Beans, Canned	51	0			0.005 ^	NT
Grapes	210	0			0.005 ^	0.15
Green Onions	558	0			0.019 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Oranges	512	0			0.013 ^	NT
Pears	742	0			0.017 ^	0.5
Pinto Beans, Canned	105	0			0.005 ^	NT
Spinach	543	0			0.005 - 0.013	NT
Strawberries	210	0			0.005 ^	NT
	201	-			0.005 ^	NT
Sweet Corn, Fresh Sweet Corn, Frozen	8	0 0			0.005 ^	NT
Sweet Com, Flozen Sweet Potatoes	-					
	<u>529</u>	<u>0</u>			0.013 ^	NT
TOTAL	5,605	0				
Dichlorprop (herbicide)						
Grapes	534	0			0.003 ^	NT
Strawberries	<u>534</u>	<u>0</u>			0.003 ^	NT
TOTAL	1,068	Ō				
Distance DDVD # CO.	\	-114681-1-3				
Dichlorvos - DDVP (insecticide	) (also a metak 744		)		0.002 - 0.003	0.5
Apples		0				0.5
Asparagus	744	0	0.5	0.004 0.004	0.002 - 0.10	0.5
Cucumbers	744	4	0.5	0.004 - 0.024	0.002 - 0.003	0.5
Garbanzo Beans, Canned	186	0			0.002 - 0.020	0.5
Grapes	210	0			0.002 ^	0.5
Kidney Beans, Canned	186	0			0.002 - 0.020	0.5
Lettuce, Organic	387	0			0.020 ^	0.5
Oranges	210	0			0.002 ^	0.5
Pears	742	0			0.002 ^	0.5
i cais						
Pinto Beans, Canned	372	0			0.002 - 0.020	0.5
	372 744	0 0			0.002 - 0.020 0.002 - 0.020	0.5 0.5

Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	210 668 75 673 742 8,293  744 210 180 744 186 744 558 186 655	15 0 0 0 0 21 21	7.1 5.6	0.004 - 0.19	0.002 ^ 0.002 - 0.10 0.002 - 0.10 0.002 - 0.003 0.006 ^	0.5 0.5 0.5 0.5 0.5 0.5
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	668 75 673 742 <b>8,293</b> 744 210 180 744 186 744 558 186	0 0 0 <u>0</u> <b>21</b> 0 0		0.004 - 0.19	0.002 - 0.10 0.002 - 0.10 0.002 - 0.003 0.006 ^	0.5 0.5 0.5 0.05
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	75 673 742 <b>8,293</b> 744 210 180 744 186 744 558 186	0 0 2 21 0 0 0	5.6		0.002 - 0.10 0.002 - 0.003 0.006 ^	0.5 0.5 0.05
Sweet Potatoes Tomato Paste TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	673 742 <b>8,293</b> 744 210 180 744 186 744 558 186	0 <u>0</u> <b>21</b> 0 0 0	5.6		0.002 - 0.003 0.006 ^	0.5 0.05
Tomato Paste TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	742 8,293 744 210 180 744 186 744 558 186	0 21 0 0 0 10 0	5.6		0.006 ^	0.05
TOTAL  Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744 210 180 744 186 744 558 186	0 0 0 10	5.6			
Dicloran (fungicide) Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744 210 180 744 186 744 558 186	0 0 10 0	5.6		0.002 - 0.006	
Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	210 180 744 186 744 558 186	0 10 0	5.6		0.002 - 0.006	
Apples Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	210 180 744 186 744 558 186	0 10 0	5.6		0.002 - 0.006	
Asparagus Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	210 180 744 186 744 558 186	0 10 0	5.6			NT
Cilantro (V-10) Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	180 744 186 744 558 186	10 0	5.6		0.006 ^	NT
Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744 186 744 558 186	0	0.0	0.003 - 0.037	0.002 - 0.013	NT
Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	186 744 558 186	-		0.000 0.007	0.002 - 0.006	5
Grapes Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744 558 186	U			0.002 - 0.000	20
Green Onions Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	558 186	4	0.5	0.040 0.76		_
Kidney Beans, Canned Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	186	4	0.5	0.010 - 0.76	0.006 - 0.052	10
Oranges (V-1) Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro		0			0.002 ^	10
Pinto Beans, Canned Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	655	0			0.006 - 0.015	20
Potatoes Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro		1	0.2	0.022 ^	0.006 - 0.025	NT
Spinach (V-7) Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	372	0			0.004 - 0.015	20
Strawberries (V-1) Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744	0			0.004 - 0.015	0.25
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744	7	0.9	0.010 - 0.19	0.006 - 0.013	NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	744	1	0.1	0.096 ^	0.006 - 0.026	NT
Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	201	0			0.006 ^	NT
Sweet Potatoes Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	8	0			0.006 ^	NT
Tomato Paste TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	739	297	40.2	0.006 - 3.7	0.004 - 0.025	10
TOTAL  Dicofol o,p' (isomer of insecticide Apples Cilantro	742	Ω	40.2	0.000 0.7	0.020 ^	5
Dicofol o,p' (isomer of insecticide Apples Cilantro	8,501	320			0.020	3
Cucumbers Grapes Green Onions Strawberries	534 534 558 <u>534</u>	0 9 0 0 Ω	1.7	0.005 - 0.14	0.003 ^ 0.012 - 0.024 0.003 ^ 0.012 ^	2.0 5.0 NT 10.0
TOTAL	2,801	9				
Dicofol p,p' (isomer of Dicofol)						
Apples	744	1	0.1	0.56 ^	0.003 - 0.012	10.0
Asparagus	210	0			0.015 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	24	3.2	0.005 - 0.91	0.003 - 0.015	2.0
Garbanzo Beans, Canned	186	0			0.002 - 0.021	3.0
Grapes	744	0			0.012 - 0.040	5.0
Green Onions (V-2)	558	2	0.4	0.016 - 0.022	0.003 - 0.019	NT
Kidney Beans, Canned	186	0			0.021 - 0.029	3.0
Oranges	210	0			0.021 ^	6.0
Pears	742	1	0.1	0.025 ^	0.015 ^	10.0
	372	0	0.1	0.025 ^		
Pinto Beans, Canned					0.002 - 0.029	3.0
Potatoes	744	0			0.002 - 0.029	NT
Spinach	210	0			0.015 ^	NT
Strawberries	744	0			0.012 - 0.020	10.0
Sweet Corn, Fresh	201	0			0.021 ^	NT
Sweet Corn, Frozen	8	0			0.021 ^	NT
Sweet Potatoes	210	0			0.021 ^	NT
Tomato Paste	<u>742</u>	<u>Q</u>			0.026 ^	2.0
TOTAL	7,739	28				
Dicrotophos (insecticide)						
Apples	135	0			0.002 ^	NT
Cucumbers						
TOTAL	<u>135</u>	<u>0</u>			0.002 ^	NT

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Dieldrin (insecticide) (also a r	metabolite of Alc	drin)				
Apples	744	0			0.003 - 0.005	0.03 AL
Asparagus	744	0			0.003 - 0.050	0.03 AL
Cilantro (V-3)	146	3	2.1	0.008 ^	0.005 ^	NT
Cucumbers	744	42	5.6	0.005 - 0.095	0.003 - 0.005	0.1 AL
Garbanzo Beans, Canned	186	0			0.002 - 0.003	0.05 AL
Grapes	744	0			0.003 - 0.020	0.05 AL
Green Onions	558	Ö			0.005 ^	0.1 AL
Kidney Beans, Canned	186	0			0.002 - 0.003	0.05 AL
Lettuce, Organic	386	0			0.010 ^	0.03 AL
Oranges	722	0			0.003 ^	0.02 AL
Pears	742	0			0.005 ^	0.03 AL
Pinto Beans, Canned	372	0			0.002 - 0.003	0.05 AL
Potatoes	744	10	1.3	0.002 - 0.006	0.002 - 0.003	0.1 AL
Spinach	298	0	1.0	0.002 0.000	0.003 ^	0.05 AL
Strawberries	744	0			0.003 - 0.020	0.05 AL
Sweet Corn, Fresh	668	0			0.003 - 0.020	0.03 AL 0.02 AL
Sweet Corn, Frozen	75	0				
,	-	-	0.4	0.005.4	0.003 - 0.050	0.02 AL
Sweet Potatoes	717	3	0.4	0.005 ^	0.003 ^	0.1 AL
Tomato Paste	<u>742</u>	<u>Q</u>			0.012 ^	0.05 AL
TOTAL	10,262	58				
Difenoconazole (fungicide)						
Apples	744	0			0.001 - 0.003	1.0
Asparagus	210	0			0.003 ^	NT
Cilantro	184	0			0.000 ^	NT
Cucumbers	744	0			0.001 - 0.003	1.0
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	15	2.0	0.004 - 0.021	0.003 ^	0.10
Green Onions	558	0	2.0	0.004 0.021	0.003 ^	NT
Kidney Beans, Canned	54				0.003 ^	NT
Oranges	744	0			0.003	NT
Pinto Beans, Canned	105	0			0.003 - 0.003	NT
•		0				
Potatoes	210	0			0.003 ^	0.01
Spinach	298	0			0.003 - 0.005	NT
Strawberries	744	0			0.003 ^	NT
Sweet Corn, Fresh	668	0			0.003 - 0.10	0.01
Sweet Corn, Frozen	75	0			0.003 - 0.10	0.01
Sweet Potatoes	<u>739</u>	<u>0</u>			0.003 - 0.005	0.01
TOTAL	6,872	15				
Diflubenzuron (insecticide)						
Apples (V-25)	744	25	3.4	0.011 - 0.087	0.007 - 0.012	NT
Asparagus	210	0			0.012 ^	NT
Cilantro (V-1)	184	1	0.5	0.011 ^	0.007 ^	NT
Cucumbers	744	Ö	0.0	0.011	0.007 - 0.022	NT
Garbanzo Beans, Canned	186	0			0.007 - 0.022	NT
Grapes	210	0			0.003 - 0.012	NT
Grapes Green Onions	210 542				0.012 ^	NT NT
		0				
Kidney Beans, Canned	186	0			0.003 - 0.012	NT 0.5
Oranges	210	0			0.012 ^	0.5
Pinto Beans, Canned	372	0			0.003 - 0.012	NT
Potatoes	744	0	4.0	0.000 *	0.003 - 0.012	NT
Spinach (V-2)	210	2	1.0	0.020 ^	0.012 ^	NT
Strawberries	210	0			0.012 ^	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.012 ^	NT
TOTAL	5,171	28				
Diffusion and the state (						
Diflufenzopyr (herbicide) Sweet Corn, Fresh	467	0			0.008 ^	0.05
•		0			0.008 ^	0.05
Sweet Corn Frozen						
Sweet Corn, Frozen TOTAL	<u>67</u> <b>534</b>	<u>0</u> <b>0</b>			0.000	0.00

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Dimethenamid (herbicide)	•					
Apples	534	0			0.001 - 0.006	NT
Cilantro (V-1)	138	1	0.7	0.002 ^	0.001 - 0.003	NT
Cucumbers	534	0			0.001 ^	NT
Garbanzo Beans, Canned	135	0			0.003 ^	NT
Green Onions	558	0			0.003 ^	0.01
Kidney Beans, Canned	132	0			0.003 ^	NT
Pinto Beans, Canned	267	0			0.003 ^	NT
Potatoes	534	0			0.003 ^	0.01
Sweet Corn, Fresh	467	0			0.020 ^	0.01
Sweet Corn, Frozen	6 <u>7</u>	Ω			0.020 ^	0.01
TOTAL	3,366	1			0.020	0.01
TOTAL	3,300	•				
Dimethoate (insecticide) (pare Apples (V-2)	nt of Omethoat	<b>e)</b> 2	0.3	0.012 - 0.049	0.001 - 0.002	NT
Asparagus	744	2	0.3	0.012 - 0.043	0.001 - 0.002	0.15
Cilantro (V-2)	184	2	1.1	0.83 ^	0.001 - 0.008	NT
Cucumbers (V-11)	744	11	1.5	0.002 - 0.20	0.002	NT
Garbanzo Beans, Canned	186	0	1.0	0.002 - 0.20	0.001 - 0.002	2.0
Grapes (V-2)	744	2	0.3	0.003 - 0.004	0.001 - 0.005	2.0 NT
Kidney Beans, Canned	744 186	0	0.3	0.003 - 0.004	0.001 - 0.002	2.0
Oranges	744	0			0.001 - 0.003	2.0
Pears	742	0			0.001 - 0.010	2.0
Pinto Beans, Canned	372	0			0.004	2.0
Potatoes	744	0			0.001 - 0.005	0.2
Spinach (V-7)	744 744	0 7	0.9	0.002 - 2.6	0.001 - 0.003	NT
Strawberries (V-1)	744 744	1	0.9	0.002 - 2.0	0.001 - 0.010	NT
Sweet Corn, Fresh	201	0	0.1	0.004	0.001 ^	NT
Sweet Corn, Frozen	8	0			0.001 ^	NT
Sweet Potatoes	739	0			0.001 - 0.010	NT
Tomato Paste	739 742	_			0.001 - 0.010	2.0
TOTAL	9,312	<u>0</u> <b>27</b>			0.012 ^	2.0
Dimethomorph (fungicide)						
Apples	744	0			0.001 - 0.003	NT
Asparagus	210	0			0.003 ^	NT
Cilantro (V-5)	184	5	2.7	0.002 - 0.009	0.001 ^	NT
Cucumbers	744	47	6.3	0.002 - 0.003	0.0009 - 0.003	0.5
Garbanzo Beans, Canned	186	0	0.0	0.002 - 0.000	0.003 ^	0.60
Grapes	210	0			0.003 ^	3.5
Green Onions	558	18	3.2	0.002 - 0.45	0.001 ^	2.0
Kidney Beans, Canned	186	0	0.2	0.002 0.40	0.003 ^	0.60
Lettuce, Organic	386	0			0.050 ^	10
Oranges	744	0			0.003 - 0.010	NT
Pinto Beans, Canned	372	0			0.003 ^	0.60
Potatoes	744	0			0.003 ^	0.05
Spinach (V-5)	298	5	1.7	0.005 - 0.098	0.003 - 0.010	NT
Strawberries	210	0	1.7	0.000 - 0.000	0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	0.05
Sweet Corn, Frozen	8				0.003 ^	0.05
Sweet Potatoes	739	0 0			0.003	NT
Tomato Paste	739 742				0.003 - 0.010	1.5
TOTAL	7,466	<u>0</u> <b>75</b>			0.00	1.0
Dinotefuran (insecticide)						
Apples	744	0			0.006 ^	NT
Asparagus	210	0			0.006 ^	NT
Cilantro (V-1)	184	1	0.5	0.033 ^	0.020 ^	NT
Cucumbers	744	15	2.0	0.010 - 0.088	0.006 ^	0.5
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	744	6	0.8	0.010 - 0.35	0.006 - 0.008	0.9
Green Onions	558	0			0.020 ^	NT

Posticido / Commodit:	Number of	Samples with Detections	% of Samples with Detections	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples		Detections	Detected, ppm	ppm	Level, ppn
Oranges	744	0			0.006 - 0.010	NT
Pinto Beans, Canned	372	0			0.003 - 0.006	NT
Potatoes	744	0			0.003 - 0.006	0.05
Spinach	744	4	0.5	0.010 - 0.49	0.006 - 0.010	5.0
Strawberries	744	0			0.006 - 0.008	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>210</u>	Q			0.006 ^	NT
TOTAL	7,323	26				
Diphenamid (herbicide)						
Apples	534	0			0.010 - 0.032	NT
Cilantro	162	0			0.010 ^	NT
Cucumbers	534	0			0.010 ^	NT
Green Onions	558	0			0.032 ^	NT
		-				
Oranges	534	0			0.050 ^	NT
Sweet Potatoes	<u>529</u>	<u>O</u>			0.050 ^	NT
TOTAL	2,851	0				
Diphenylamine - DPA (fungicide)						
Apples	744	548	73.7	0.005 - 5.3	0.003 - 0.012	10.0
Asparagus	210	0			0.012 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers (V-1)	744	1	0.1	0.005 ^	0.003 - 0.012	NT
Garbanzo Beans, Canned	186	0	<b>0</b>	0.000	0.010 - 0.012	NT
·	210	0			0.012 ^	NT
Grapes	_					
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	186	0			0.010 - 0.012	NT
Oranges	678	0			0.010 - 0.012	NT
Pears	742	37	5.0	0.070 - 3.4	0.042 ^	5.0
Pinto Beans, Canned	372	0			0.010 - 0.012	NT
Potatoes	744	0			0.010 - 0.012	NT
Spinach	720	0			0.012 - 0.015	NT
Strawberries	210	0			0.012 ^	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8				0.012 ^	NT
Sweet Potatoes		0				
	<u>210</u>	<u>0</u>			0.012 ^	NT
TOTAL	6,907	586				
Disulfoton (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	744	0			0.002 - 0.20	0.1
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.030	0.75
Grapes	210				0.002 - 0.030	NT
•		0				
Kidney Beans, Canned	186	0			0.002 - 0.030	0.75
Oranges	210	0			0.002 ^	NT 0.75
Pinto Beans, Canned	372	0			0.002 - 0.030	0.75
Potatoes	744	0			0.002 - 0.030	0.75
Spinach	656	0			0.002 - 0.004	0.75
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	0			0.002 ^	NT
Tomato Paste	742				0.002	0.75
TOTAL	6,351	<u>Ω</u> <b>0</b>			0.017	0.15
		-				
Disulfoton oxon (metabolite of Di Garbanzo Beans, Canned	sulfoton) 135	0			0.001 ^	0.75
· · · · · · · · · · · · · · · · · · ·						0.75
Pinto Beans, Canned	245	0			0.001 ^ 0.001 ^	0.75 0.75
Detetees						
Potatoes TOTAL	<u>402</u> <b>782</b>	<u>0</u> <b>0</b>			0.001	0.75

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Disulfoton sulfone (metabolite o	of Disulfoton)					
Apples	744	0			0.002 - 0.006	NT
Asparagus	744	0			0.002 - 0.010	0.1
Cilantro	184	0			0.006 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.020	0.75
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.020	0.75
Oranges	744	0			0.002 - 0.010	NT
Pinto Beans, Canned	372	0			0.002 - 0.020	0.75
Potatoes	744	0			0.002 - 0.020	0.75
Spinach	656	0			0.002 - 0.004	0.75
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	0			0.002 ^	NT
Tomato Paste	<u>742</u>	<u>O</u>			0.008 ^	0.75
TOTAL	7,443	0				
<b>5. 6.</b> 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	(5)					
Disulfoton sulfoxide (metabolite		-			0.040.4	0.1
Asparagus	534 135	0			0.010 ^ 0.005 ^	0.1
Garbanzo Beans, Canned		0				0.75
Kidney Beans, Canned	132	0			0.005 ^	0.75
Pinto Beans, Canned	267	0			0.005 ^	0.75
Potatoes	534	0			0.005 ^	0.75
Tomato Paste	<u>742</u>	<u>0</u>			0.11 ^	0.75
TOTAL	2,344	0				
Diuron (herbicide)						
Apples	744	0			0.008 - 0.012	0.1
Asparagus	744	5	0.7	0.089 - 0.82	0.012 - 0.020	7
Cucumbers	744	0	<b>0</b>	0.000 0.02	0.008 - 0.025	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.012	NT
Grapes	210	0			0.012 ^	0.05
Green Onions	558	0			0.025 - 0.12	NT
Kidney Beans, Canned	186	0			0.003 - 0.012	NT
Oranges	210	0			0.012 ^	0.05
Pinto Beans, Canned	372	0			0.003 - 0.012	NT
Potatoes	744	0			0.003 - 0.012	NT
Spinach	210	0			0.012 ^	NT
Strawberries	210	Ö			0.012 ^	0.1
Sweet Corn, Fresh	668	0			0.012 - 0.020	NT
Sweet Corn, Frozen	75	0			0.012 - 0.020	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.012 ^	NT
TOTAL	6,071	5			0.012	
	5,511	-				
Emamectin benzoate (insecticid						
Apples	534	0			0.001 ^	0.025
Cilantro	184	0			0.001 ^	NT
Cucumbers	534	0			0.001 ^	NT
Grapes	534	0			0.001 ^	NT
Green Onions	558	0			0.001 ^	NT
Strawberries	<u>534</u>	<u>0</u>			0.001 ^	NT
TOTAL	2,878	0				
Endeauten I (incasticida)						
Endosulfan I (insecticide) Apples	744	51	6.9	0.005 - 0.24	0.003 - 0.006	1.0
Asparagus	744 744		۵.۶	0.003 - 0.24	0.003 - 0.006	NT
Cilantro	184	0			0.003 - 0.050	NT
GildHillO	104	0				
Cucumbara	711	200	20.4	0.00E - 0.04	0.003 - 0.000	4 ^
Cucumbers Garbanzo Beans, Canned	744 186	226 0	30.4	0.005 - 0.21	0.003 - 0.006 0.002 - 0.003	1.0 2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
	•		Detections	Detected, ppm		
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.003	2.0
Lettuce, Organic	387	0			0.010 ^	11.0
Oranges	744	0			0.003 ^	NT
Pears	742	2	0.3	0.086 - 0.15	0.005 ^	2.0
Pinto Beans, Canned	372	0			0.001 - 0.003	2.0
Potatoes	744	0			0.001 - 0.003	0.2
Spinach	722	1	0.1	0.005 ^	0.003 - 0.015	2.0
Strawberries	744	3	0.4	0.088 - 0.16	0.003 - 0.040	2.0
Sweet Corn, Fresh	668	0			0.003 - 0.050	0.2
Sweet Corn, Frozen	75	0			0.003 - 0.050	0.2
Sweet Potatoes	739	0			0.003 ^	0.15
Tomato Paste	<u>742</u>	<u>0</u>			0.013 ^	1.0
TOTAL	10,769	283				
Endosulfan II (isomer of Endos	,					
Apples	739	94	12.7	0.007 - 0.19	0.004 - 0.006	1.0
Asparagus	744	0			0.004 - 0.050	NT
Cilantro	154	0			0.020 ^	NT
Cucumbers	744	187	25.1	0.007 - 0.13	0.004 - 0.006	1.0
Garbanzo Beans, Canned	186	0			0.001 - 0.004	2.0
Grapes	744	0			0.004 - 0.040	2.0
Green Onions	556	0			0.006 - 0.020	NT
Kidney Beans, Canned	186	0			0.001 - 0.004	2.0
Oranges	744	0			0.003 - 0.004	NT
Pears	742	5	0.7	0.008 - 0.50	0.005 ^	2.0
Pinto Beans, Canned	372	0			0.001 - 0.004	2.0
Potatoes	744	2	0.3	0.001 - 0.002	0.001 - 0.004	0.2
Spinach	744	0			0.003 - 0.015	2.0
Strawberries	744	4	0.5	0.007 - 0.32	0.004 - 0.040	2.0
Sweet Corn, Fresh	668	0	0.0	0.00. 0.02	0.004 - 0.050	0.2
Sweet Corn, Frozen	75	0			0.004 - 0.050	0.2
Sweet Potatoes	739	1	0.1	0.005 ^	0.003 - 0.004	0.15
Tomato Paste	742	<u>7</u>	0.9	0.003	0.013 ^	1.0
TOTAL	10,367	300	0.0	0.022	0.010	1.0
Endosulfan sulfate (metabolite	of Endosulfan	<b>\</b>				
Apples	729	53	7.3	0.007 - 0.12	0.004 - 0.020	1.0
Asparagus	744	0			0.004 - 0.050	NT
Cucumbers	744	217	29.2	0.007 - 0.11	0.004 - 0.020	1.0
Garbanzo Beans, Canned	186	0	20.2	0.007 0.11	0.003 - 0.004	2.0
Grapes	744	0			0.004 - 0.020	2.0
Green Onions (V-1)	556	1	0.2	0.033 ^	0.020 ^	NT
Kidney Beans, Canned	186	0	0.2	0.000	0.003 - 0.004	2.0
Oranges	744				0.003 - 0.004	NT
Pears	744 742	0	0.5	0.011 - 0.20	0.003 - 0.004	2.0
		4	0.5	0.011 - 0.20		
Pinto Beans, Canned	372	0	F 4	0.000 0.000	0.003 - 0.004	2.0
Potatoes	744	40	5.4	0.003 - 0.022	0.003 - 0.004	0.2
Spinach	744	13	1.7	0.005 - 0.071	0.003 - 0.015	2.0
Strawberries	744	15	2.0	0.022 - 0.096	0.004 - 0.020	2.0
Sweet Corn, Fresh	668	0			0.004 - 0.050	0.2
Sweet Corn, Frozen	75	0			0.004 - 0.050	0.2
Sweet Potatoes	739	2	0.3	0.005 - 0.011	0.003 - 0.004	0.15
Tomato Paste TOTAL	<u>742</u> 10,203	<u>0</u> <b>345</b>			0.017 ^	1.0
	-,					
Endrin (insecticide) Apples	734	0			0.004 - 0.007	NT
Asparagus	210	0			0.004 ^	0.05 AL
Cilantro	184	0			0.007 ^	NT
Cucumbers	744	1	0.1	0.017 ^	0.007	0.05 AL
	/		U. I	0.017	0.007 - 0.001	
Garbanzo Beans, Canned	186	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,	EPA Tolerance Level, ppr
•	•		Detections	Detected, ppin	ppm	
Green Onions	556	0			0.007 ^	0.05 AL
Kidney Beans, Canned	186	0			0.002 - 0.004	0.05 AL
Lettuce, Organic	387	0			0.010 ^	0.05 AL
Oranges	744	0			0.003 - 0.004	NT
Pears	742	0			0.006 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.004	0.05 AL
Potatoes	744	0			0.002 - 0.004	0.05 AL
Spinach	298	0			0.003 - 0.004	0.05 AL
Strawberries	744	0			0.004 - 0.030	NT
Sweet Corn, Fresh	668	0			0.004 - 0.080	0.05 AL
Sweet Corn, Frozen	75	0			0.004 - 0.080	0.05 AL
Sweet Potatoes	739	0			0.003 - 0.004	0.05 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.013 ^	0.05 AL
TOTAL	9,799	1				
EPN (insecticide)						—
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	Ö			0.003 ^	NT
Strawberries	210	Ö			0.003 ^	NT
	_				0.003 ^	NT
Sweet Corn, Fresh	201	0				
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>2,309</b>	<u>0</u> <b>0</b>			0.003 ^	NT
	_,555	· ·				
EPTC (herbicide)						
Apples	534	0			0.064 ^	0.1
Cilantro	184	0			0.064 ^	0.1
Cucumbers	534	0			0.064 ^	0.1
Garbanzo Beans, Canned	135	0			0.010 ^	0.1
Grapes	534	0			0.074 ^	0.1
Green Onions	558	0			0.064 ^	NT
Pinto Beans, Canned	245	0			0.010 ^	0.1
Potatoes	402	0			0.010 ^	0.1
Strawberries	534	Ö			0.074 ^	0.1
Tomato Paste	<u>742</u>	<u>0</u>			0.17 ^	0.1
TOTAL	4,402	<u>0</u> 0			0.17	0.1
	•					
Esfenvalerate+Fenvalerate Tota	-	_	0.0	0.024 0.000	0.000 0.050	2.0
Apples	534	5	0.9	0.031 - 0.068	0.029 - 0.058	2.0
Asparagus	534	0			0.050 ^	0.05
Cucumbers	534	0			0.029 - 0.19	0.5
Garbanzo Beans, Canned	135	0			0.002 ^	2.0
Green Onions	558	0			0.029 - 0.058	0.05
Kidney Beans, Canned	132	0			0.002 ^	2.0
Oranges	534	0			0.13 ^	0.05
Pears	742	0			0.061 ^	2.0
Pinto Beans, Canned	267	Ö			0.002 ^	2.0
Potatoes	534	Ö			0.002 ^	0.02
Spinach	534	0			0.13 ^	0.02
Sweet Corn, Fresh	467				0.050 ^	0.05
		0				
Sweet Corn, Frozen	67	0			0.050 ^	0.1
Sweet Potatoes	<u>528</u>	<u>0</u> <b>5</b>			0.13 ^	0.05
TOTAL	6,100					

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Esfenvalerate (isomer of Fenva	lerate)					
Apples	210	0			0.015 ^	2.0
Asparagus	210	0			0.015 ^	0.05
Cucumbers	210	0			0.015 ^	0.5
Garbanzo Beans, Canned	51	0			0.015 ^	2.0
Grapes	744	0			0.015 - 0.070	0.05
Kidney Beans, Canned	54	0			0.015 ^	2.0
Oranges	210	0			0.015 ^	0.05
Pinto Beans, Canned	105	0			0.015 ^	2.0
Potatoes	210	0			0.015 ^	0.02
Spinach	210	0			0.015 ^	0.05
Strawberries	744	0			0.015 - 0.070	0.05
Sweet Corn, Fresh	201	0			0.015 ^	0.1
Sweet Corn, Frozen	8	0			0.015 ^	0.1
Sweet Potatoes	210	0			0.015 ^	0.1
	-					
Tomato Paste TOTAL	<u>742</u> 4,119	<u>0</u> <b>0</b>			0.23 ^	1.0
	, -					
Ethalfluralin (herbicide) Apples	744	0			0.008 - 0.017	NT
Asparagus	744	0			0.008 - 0.050	NT
Cilantro	184	0			0.017 ^	NT
Cucumbers	730	0			0.008 - 0.017	0.05
Garbanzo Beans, Canned		0			0.008 - 0.017	NT
,	186	-				
Grapes	210	0			0.008 ^	NT
Green Onions	526	0			0.017 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.008	NT
Oranges	210	0			0.008 ^	NT
Pinto Beans, Canned	372	0			0.001 - 0.008	NT
Potatoes	744	0			0.001 - 0.008	0.05
Spinach	210	0			0.008 ^	NT
Strawberries	210	0			0.008 ^	NT
Sweet Corn, Fresh	668	0			0.008 - 0.050	NT
Sweet Corn, Frozen	75	0			0.008 - 0.050	NT
Sweet Potatoes	210	<u>0</u>			0.008 ^	NT
TOTAL	6,209	0				
Ethiofencarb (insecticide)						
Apples	534	0			0.015 - 0.050	NT
Cucumbers	534	0			0.015 - 0.050	NT
Green Onions	542	Ö			0.015 ^	NT
Oranges	534	Ö			0.010 ^	NT
Spinach	88	0			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	2,761	0			0.010	141
Ethion (insecticide)						
Ethion (insecticide) Apples	744	0			0.001 - 0.002	NT
Asparagus	744 210	0			0.001 - 0.002	NT
* **					0.002 ^	
Cilantro	184	0				NT NT
Cucumbers	744	0			0.001 - 0.002	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	744	0			0.002 - 0.010	5.0
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	657	0			0.002 - 0.010	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>717</u>	<u>O</u>			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,	EPA Tolerance Level, ppm
Ethion mono oxon (metabolite				/11	••	/11
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
· ·	_	0			0.002 ^	
Grapes	210	_				NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	5.0
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	210	<u>0</u>			0.002 ^	NT
TOTAL	4,119	0				
Ethoprop (insecticide)						
Apples	744	0			0.001 ^	NT
Asparagus	210	0			0.001 ^	NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	0			0.0009 - 0.001	0.02
Garbanzo Beans, Canned	186	0			0.001 - 0.002	0.02
Grapes	210	0			0.001 ^	NT
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.002	0.02
		0				
Oranges	744	-			0.001 - 0.010	NT
Pinto Beans, Canned	372	0			0.001 - 0.002	0.02
Potatoes	744	0			0.001 - 0.002	0.02
Spinach	744	0			0.001 - 0.010	NT
Strawberries	210	0			0.001 ^	NT
Sweet Corn, Fresh	668	0			0.001 - 0.008	0.02
Sweet Corn, Frozen	75	0			0.001 - 0.008	0.02
Sweet Potatoes	<u>739</u>	<u>2</u>	0.3	0.004 - 0.005	0.001 - 0.010	0.02
TOTAL	7,318	2				
Etoxazole (acaricide)						
Apples	534	18	3.4	0.002 - 0.019	0.001 ^	0.20
Cilantro	184	0	0.1	0.002 0.010	0.001 ^	NT
Cucumbers	534	1	0.2	0.002 ^	0.001 ^	0.02
Green Onions	558	<u>0</u>	0.2	0.002	0.001 - 0.003	NT
TOTAL	1,810	<u>∪</u> 19			0.001 - 0.003	INI
Etridiazole (fungicide)						
Grapes	515	0			0.010 ^	NT
Strawberries	466	0			0.010 ^	NT
Tomato Paste	742				0.20 ^	0.15
TOTAL	1,723	<u>0</u> <b>0</b>			0.20	0.13
Famouradone (funciaido)	,					
Famoxadone (fungicide) Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	7	3.3	0.005 - 0.016	0.003 ^	0.30
Garbanzo Beans, Canned	51	0	5.5	0.000 - 0.010	0.003 ^	NT
	744		0.1	0.20 4	0.003 ^	2.5
Grapes		1	U. I	0.20 ^		
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	0.02
Spinach	210	2	1.0	0.005 - 0.93	0.003 ^	50
Opinaon	744				0.003 - 0.066	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppr
	•		Detections	Detected, ppin	ppm	
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	210	0			0.003 ^	NT
Tomato Paste	742	<u>0</u>			0.16 ^	1.0
TOTAL	4,119	10				
Fenamidone (fungicide)						
Apples	744	0			0.002 - 0.003	NT
Asparagus	210	0			0.003 ^	NT
Cilantro	162	2	1.2	0.004 - 0.077	0.002 ^	60
Cucumbers	734	11	1.5	0.004 - 0.019	0.002 - 0.003	0.15
Garbanzo Beans, Canned	186	0			0.003 - 0.005	NT
Grapes	744	2	0.3	0.021 - 0.024	0.003 - 0.010	1.0
Green Onions	558	1	0.2	0.010 ^	0.002 - 0.008	1.5
Kidney Beans, Canned	186	0	-		0.003 - 0.005	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	372	0			0.003 - 0.005	NT
Potatoes	744	0			0.003 - 0.005	0.02
Spinach	210	31	14.8	0.005 - 7.8	0.003 - 0.005	60
•			14.0	0.005 - 7.8		
Strawberries	744	0			0.003 - 0.010	0.15
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	0.02
TOTAL	6,223	47				
Fenamiphos (insecticide)						
Apples	744	0			0.002 ^	0.25
Asparagus	744	Ö			0.002 - 0.007	0.02
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	744	-			0.002	0.10
·		0				
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	744	0			0.002 - 0.005	0.50
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	744	0			0.002 - 0.005	NT
Strawberries	744	0			0.001 - 0.002	0.60
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>739</u>	<u>0</u>			0.002 - 0.005	NT
TOTAL	7,318	<u>o</u>			0.002 0.000	• • • • • • • • • • • • • • • • • • • •
-anaminhaa aulfana (matahalit	a of Fanaminh					
Fenamiphos sulfone (metabolit Apples	e of Fenamiph 744	<b>os)</b> 0			0.003 - 0.004	0.25
Asparagus	744	0			0.003 - 0.007	0.02
Cilantro	184	0			0.004 ^	NT
Cucumbers (V-1)	744	1	0.1	0.006 ^	0.003 - 0.004	NT
Garbanzo Beans, Canned	51	0	0.1	0.000	0.003 ^	NT
•						
Grapes	744	0			0.001 - 0.003	0.10
Green Onions	558	0			0.004 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.005	0.50
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	744	0			0.003 - 0.005	NT
	744	Ö			0.001 - 0.003	0.60
Strawberries		•				
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Fresh		0				
	201 8 <u>739</u>	0 0 <u>0</u>			0.003 ^ 0.003 ^ 0.003 - 0.005	NT NT

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppm
Fenamiphos sulfoxide (metabol	ite of Fenamip	hos)				
Apples	744	0			0.003 - 0.004	0.25
Asparagus	744	0			0.003 - 0.010	0.02
Cilantro	184	0			0.004 ^	NT
Cucumbers (V-2)	744	2	0.3	0.006 - 0.015	0.003 - 0.004	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	2	0.3	0.002 - 0.003	0.001 - 0.003	0.10
Green Onions	558	0			0.004 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.005	0.50
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	744	0			0.003 - 0.005	NT
Strawberries	744	0			0.001 - 0.003	0.60
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
	o 739					NT
Sweet Potatoes		<u>0</u>			0.003 - 0.005	INI
TOTAL	7,318	4				
Fenarimol (fungicide)						
Apples	744	0			0.010 - 0.030	0.1
Asparagus	210	0			0.030 ^	NT
Cilantro	168	0			0.030	NT
Cucumbers	729				0.010 - 0.032	NT
Garbanzo Beans, Canned	729 51	0			0.030 ^	NT
· ·		0	0.4	0.004.4		
Grapes	744 550	1	0.1	0.024 ^	0.015 - 0.030	0.1
Green Onions	558	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.030 ^	NT
Oranges	744	0			0.025 - 0.030	NT
Pears	742	0			0.022 ^	0.1
Pinto Beans, Canned	105	0			0.030 ^	NT
Potatoes	210	0			0.030 ^	NT
Spinach	210	0			0.030 ^	NT
Strawberries	744	0			0.015 - 0.030	NT
Sweet Corn, Fresh	201	0			0.030 - 0.060	NT
Sweet Corn, Frozen	8	0			0.030 ^	NT
Sweet Potatoes	<u>716</u>	<u>0</u>			0.025 - 0.030	NT
TOTAL	6,938	1				
Fenazaquin (insecticide, acarici	-					
Pears	<u>742</u>	<u>0</u>			0.015 ^	0.2
TOTAL	742	0				
Fenbuconazole (fungicide)						
Apples	744	6	0.8	0.003 - 0.024	0.001 - 0.060	0.4
Asparagus	210	0	0.0	0.000 0.021	0.060 ^	NT
Cilantro	184				0.001 - 0.003	NT
Cucumbers	744	0			0.001 - 0.060	NT
Garbanzo Beans, Canned	51	0			0.060 ^	NT
•		0				
Grapes	744	0			0.001 - 0.060	1.0
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.060 ^	NT
Oranges	744	0			0.005 - 0.060	1.0
Pinto Beans, Canned	105	0			0.060 ^	NT
Potatoes	210	0			0.060 ^	NT
	744	0			0.005 - 0.060	NT
Spinach		•			0.001 - 0.060	NT
Spinach Strawberries	744	0			0.00. 0.000	
•	744 201	0			0.060 - 0.12	NT
Strawberries						NT NT
Strawberries Sweet Corn, Fresh	201	0			0.060 - 0.12	

Produkte / C	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Fenchlorphos (insecticide)						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	Ö			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	-			0.003 ^	NT
·		0				
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,309	0				
Fenhevamid (fungicide)						
Fenhexamid (fungicide)	504	0			0.010 ^	NT
Apples		0				
Cilantro	108	0			0.032 ^	30.0
Cucumbers	519	0			0.010 - 0.13	2.0
Grapes	534	194	36.3	0.002 - 1.4	0.002 ^	4.0
Green Onions	558	0			0.010 - 0.032	NT
Pears	742	1	0.1	0.043 ^	0.026 ^	10
Strawberries	534	210	39.3	0.002 - 2.2	0.002 ^	3.0
Tomato Paste	<u>742</u>	<u>0</u>			0.052 ^	2.0
TOTAL	4,241	405				
Fenitrothion (insecticide)						
Apples	744	0			0.002 - 0.003	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.003 - 0.020	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
	-	0				
Spinach	210	-			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL	3,935	0				
Fenpropathrin (insecticide) Apples	744	25	3.4	0.015 - 0.20	0.009 - 0.016	5.0
• •			5.4	0.013 - 0.20		
Asparagus	744	0			0.009 - 0.050	NT
Cilantro	184	0			0.052 ^	NT
Cucumbers	744	4	0.5	0.015 - 0.026	0.009 - 0.016	0.5
Garbanzo Beans, Canned	186	0			0.009 - 0.020	NT
Grapes	744	62	8.3	0.015 - 0.21	0.009 - 0.020	5.0
Green Onions	558	0			0.016 - 0.052	NT
Kidney Beans, Canned	186	0			0.009 - 0.020	NT
Oranges	722	0			0.009 - 0.015	2.0
Pears	742	4	0.5	0.062 - 0.61	0.037 ^	5.0
Pinto Beans, Canned	372	0	0.0	0.002 0.01	0.009 - 0.020	NT
Potatoes	744				0.009 - 0.020	NT
		0				
Spinach	722	0	2.2	0.045 :=	0.009 - 0.075	NT
Strawberries	744	64	8.6	0.015 - 1.7	0.009 - 0.020	2.0
Sweet Corn, Fresh	668	0			0.009 - 0.10	NT
Sweet Corn, Frozen	75				0.009 - 0.10	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Sweet Potatoes	716	0		, p.p	0.009 - 0.015	NT
Tomato Paste	710 742	<u>0</u>			0.009 - 0.013	1.0
TOTAL	10,337	159			0.12	1.0
Fenpyroximate (acaricide)						
Apples	534	70	13.1	0.002 - 0.12	0.001 - 0.006	0.40
Cilantro	62	0			0.001 - 0.015	NT
Cucumbers	399	0			0.003 ^	NT
Green Onions	450	0			0.003 ^	NT
Oranges	534	0			0.010 ^	0.60
Pears	742	80	10.8	0.025 - 0.080	0.015 ^	0.40
Spinach	88	0			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>O</u>			0.010 ^	NT
TOTAL	3,338	150				
Fensulfothion (insecticide, fur						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,309	0				
Fenthion (insecticide)	744	•			0.002 ^	NT
Apples	744	0				
Asparagus	210	0			0.002 ^	NT
Cilantro Cucumbers	184 744	0			0.002 ^	NT
Garbanzo Beans, Canned	744 51	0			0.002 ^ 0.002 ^	NT NT
	_	0				
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned Potatoes	105 210	0 0			0.002 ^ 0.002 ^	NT NT
Spinach	656				0.002 /	NT
Strawberries	210	0			0.002 - 0.008	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Fresh	8	0 0			0.002 ^	NT
Sweet Com, 1102em	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL	4,565	0			3.502	141
Fenvalerate (isomer of Esfenv	alerate)					
Apples	210	0			0.015 ^	2.0
Asparagus	210	0			0.015 ^	0.05
Cucumbers	210	0			0.015 ^	0.5
Garbanzo Beans, Canned	51	0			0.015 ^	2.0
Grapes	210	0			0.015 ^	0.05
Kidney Beans, Canned	54	0			0.015 ^	2.0
Oranges	210	0			0.015 ^	0.05
Pinto Beans, Canned	105	0			0.015 ^	2.0
Potatoes	210	0			0.015 ^	0.02
Cninach	210	0			0.015 ^	0.05
Spinach	210	U				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Sweet Corn, Fresh	201	0		2000000, pp.11	0.015 ^	0.1
Sweet Corn, Frozen	8	0			0.015 ^	0.1
Sweet Com, 1102em	210	<u>0</u>			0.015 ^	0.05
TOTAL	2,309	0			0.010	0.00
Flonicamid (insecticide)						
Apples	744	4	0.5	0.002 - 0.013	0.001 - 0.018	0.20
Asparagus	210	0			0.018 ^	NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	45	6.0	0.002 - 0.11	0.001 - 0.018	0.40
Garbanzo Beans, Canned	51	0			0.018 ^	NT
Grapes	210	0			0.018 ^	NT
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	54	0			0.018 ^	NT
Lettuce, Organic	387	0			0.010 ^	4.0
Oranges	210	0			0.018 ^	NT
Pears	742	0			0.010 ^	0.20
Pinto Beans, Canned	105	0			0.018 ^	NT
Potatoes	210	0			0.018 ^	0.20
Spinach	210	9	4.3	0.088 - 1.8	0.018 ^	9.0
Strawberries	210	0			0.018 ^	NT
Sweet Corn, Fresh	201	0			0.018 ^	NT
Sweet Corn, Frozen	8	0			0.018 ^	NT
Sweet Potatoes	210	0			0.018 ^	0.20
Tomato Paste	<u>742</u>	<u>0</u>			0.032 ^	2.0
TOTAL	5,990	58				
Fluazifop butyl (herbicide)						
Apples	534	0			0.001 ^	NT
Cilantro (V-1)	184	1	0.5	0.010 ^	0.001 - 0.003	NT
Cucumbers	534	0			0.001 ^	NT
Green Onions	526	0			0.003 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	0.5
TOTAL	2,307	1				
Fludioxonil (fungicide)						
Apples	744	67	9.0	0.010 - 1.2	0.006 - 0.012	5.0
Asparagus	210	0			0.006 ^	NT
Cilantro	184	1	0.5	0.081 ^	0.040 ^	10
Cucumbers	744	0			0.006 - 0.080	0.45
Garbanzo Beans, Canned	186	0			0.006 - 0.055	0.4
Grapes	744	138	18.5	0.001 - 0.86	0.001 - 0.006	1.0
Green Onions	542	0			0.012 - 0.080	7.0
Kidney Beans, Canned	186	0			0.006 - 0.055	0.4
Lettuce, Organic	387	0			0.020 ^	30
Oranges	744	1	0.1	0.010 ^	0.006 - 0.010	10
Pears	742	163	22.0	0.025 - 0.79	0.015 ^	5.0
Pinto Beans, Canned	372	0			0.006 - 0.055	0.4
Potatoes	744	0			0.006 - 0.055	0.02
Spinach	744	0			0.006 - 0.010	0.01
Strawberries	744	263	35.3	0.001 - 0.96	0.001 - 0.006	2.0
Sweet Corn, Fresh	668	0			0.006 - 0.050	0.02
Sweet Corn, Frozen	75	0			0.006 - 0.050	0.02
Sweet Potatoes	694	14	2.0	0.013 - 0.23	0.006 - 0.010	3.5
Tomato Paste	<u>742</u>	<u>0</u>			0.049 ^	0.50
TOTAL	10,196	647				
Flufenacet (herbicide)						
Sweet Corn, Fresh	467	0			0.040 ^	0.05
Sweet Corn, Frozen	67	<u>0</u>			0.040 ^	0.05
TOTAL	534	0				

Destinide / Company differ	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Flumioxazin (herbicide)						
Pears	<u>742</u>	<u>0</u>			0.14 ^	0.02
TOTAL	742	0				
Fluoxastrobin (fungicide)						
Apples	534	0			0.001 ^	NT
Cilantro (V-1)	184	1	0.5	0.002 ^	0.001 - 0.004	NT
Cucumbers	534	0			0.001 ^	NT
Green Onions	558	0			0.001 ^	NT
Oranges	534	0			0.002 ^	NT
Spinach	88	0			0.002 ^	NT
Sweet Potatoes	529	0			0.002 ^	0.010
Tomato Paste	742	<u>0</u>			0.010 ^	1.5
TOTAL	3,703	1				
Fluridone (herbicide)	210	0			0.002 ^	0.1
Apples	-	0				
Asparagus	744	0			0.002 - 0.050	NT 0.1
Cucumbers	210	0			0.002 ^	0.1
Garbanzo Beans, Canned	186	0			0.001 - 0.002	
Grapes	744	0			0.001 - 0.002	0.1
Kidney Beans, Canned	186	0			0.001 - 0.002	0.1
Oranges	744	0			0.002 - 0.010	0.1
Pinto Beans, Canned	372	0	0.5	0.000 0.000	0.001 - 0.002	0.1
Potatoes	744	4	0.5	0.002 - 0.006	0.001 - 0.002	0.1
Spinach	744	0			0.002 - 0.010	0.1
Strawberries	744	0			0.001 - 0.002	0.1
Sweet Corn, Fresh	668	0			0.002 - 0.050	0.1
Sweet Corn, Frozen	75	0			0.002 - 0.050	0.1
Sweet Potatoes	<u>739</u>	<u>0</u>			0.002 - 0.010	0.1
TOTAL	7,110	4				
Flutolanil (fungicide)						
Garbanzo Beans, Canned	135	0			0.003 ^	NT
Kidney Beans, Canned	132	0			0.003 ^	NT
Pinto Beans, Canned	267	0			0.003 ^	NT
Potatoes	534	<u>59</u>	11.0	0.003 - 0.032	0.003 ^	0.20
TOTAL	1,068	59				
Fluvelinete (incepticide)						
Fluvalinate (insecticide) Apples	210	0			0.015 ^	NT
Asparagus	744	0			0.015 - 0.12	NT
Cucumbers	210	0			0.015 ^	NT
Garbanzo Beans, Canned	186	0			0.010 - 0.015	NT
Grapes	744	0			0.015 - 0.035	NT
Kidney Beans, Canned	186	0			0.010 - 0.015	NT
Lettuce, Organic	387	0			0.067 ^	NT
Oranges	210	0			0.015 ^	NT
Pinto Beans, Canned	372	0			0.010 - 0.015	NT
Potatoes	744	0			0.010 - 0.015	NT
Spinach	656	0			0.015 ^	NT
Strawberries	744	0			0.015 ^	NT
Sweet Corn, Fresh	668	0			0.015 - 0.035	NT
Sweet Corn, Frozen	75	0			0.015 - 0.12	NT
Sweet Com, Frozen Sweet Potatoes	75 <u>738</u>				0.015 - 0.12	NT NT
TOTAL	7.38 6,874	<u>0</u> <b>0</b>			0.015 ^	INI
	,-	-				
Folpet (fungicide) Grapes	534	0			0.060 ^	50.0
Jiupoo		U				
Strawherries	534	Λ			0 060 A	5 (1
Strawberries Tomato Paste	534 <u>742</u>	0 <u>0</u>			0.060 ^ 0.043 ^	5.0 25.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
	Jampies	Detections	Detections	Detected, ppin	ррш	Level, ppil
Fonofos (insecticide)	744	0			0.000 4	NIT
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.010	NT
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.010	NT
Potatoes	744	0			0.002 - 0.010	NT
Spinach	656	0			0.002 - 0.005	NT
Strawberries	210	Ö			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL					0.002 ^	INI
TOTAL	5,633	0				
Forchlorfenuron (plant growth r	egulator)					
Pears	742	<u>0</u>			0.015 ^	0.01
TOTAL	742	0				
Formetanate hydrochloride (insert Apples	ecticide) 744	109	14.7	0.0002 - 0.026	0.0001 - 0.006	0.50
• •			14.7	0.0002 - 0.026		
Asparagus	210	0			0.006 ^	NT
Cucumbers	210	0			0.006 ^	NT
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes (V-1)	744	1	0.1	0.003 ^	0.001 - 0.006	NT
Kidney Beans, Canned	54	0			0.006 ^	NT
Oranges	742	35	4.7	0.0002 - 0.001	0.0001 - 0.006	1.5
Pears	742	93	12.5	0.0002 - 0.033	0.0001 ^	0.50
Pinto Beans, Canned	105	0			0.006 ^	NT
Potatoes	210	0			0.006 ^	NT
Spinach	210	0			0.006 ^	NT
Strawberries	744	Ö			0.001 - 0.006	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>210</u>	-			0.006 ^	NT
TOTAL	5,185	<u>0</u> <b>238</b>			0.006 ^	INI
	0,100	200				
Halosulfuron methyl (herbicide)						
Oranges	534	0			0.010 ^	NT
Spinach	<u>88</u>	<u>0</u>			0.010 ^	NT
TOTAL	622	0				
Heptachlor (insecticide)						
Apples	744	0			0.002 - 0.003	0.01 AL
Asparagus	744				0.002 - 0.003	0.01 AL
. •		0				
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	0.02 AL
Garbanzo Beans, Canned	186	0			0.002 - 0.003	0.01 AL
Grapes	744	0			0.003 - 0.010	0.01 AL
Green Onions	528	0			0.002 ^	0.01 AL
Kidney Beans, Canned	186	0			0.002 - 0.003	0.01 AL
Lettuce, Organic	387	0			0.010 ^	0.01 AL
Oranges	721	0			0.002 - 0.003	0.01 AL
Pears	742	Ö			0.004 ^	0.01 AL
	372	0			0.002 - 0.003	0.01 AL
						· · -
Pinto Beans, Canned					0.002 - 0.003	0.01 AI
Pinto Beans, Canned Potatoes	744	0			0.002 - 0.003 0.002 - 0.003	0.01 AL 0.01 AI
Pinto Beans, Canned					0.002 - 0.003 0.002 - 0.003 0.003 - 0.010	0.01 AL 0.01 AL 0.01 AL

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Sweet Corn, Frozen	75	0			0.003 - 0.040	0.01 AL
Sweet Potatoes	739	0			0.002 - 0.005	0.01 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.014 ^	0.01 AL
TOTAL	10,738	0				
Heptachlor epoxide (metaboli	-	)				
Apples	739	0			0.004 ^	0.01 AL
Asparagus	744	0			0.004 - 0.040	0.05 AL
Cilantro	170	0	0.4	0.000.4	0.004 ^	NT
Cucumbers	744	1	0.1	0.006 ^	0.004 ^	0.02 AL
Garbanzo Beans, Canned	186	0			0.001 - 0.004	0.01 AL
Grapes	744	0			0.004 - 0.010	0.01 AL
Green Onions	558	0			0.004 ^	0.01 AL
Kidney Beans, Canned	186	0			0.001 - 0.004	0.01 AL
Lettuce, Organic	387	0			0.010 ^	0.01 AL
Oranges	744	0			0.002 - 0.004	0.01 AL
Pinto Beans, Canned	372	0	0.4	0.004 0.000	0.001 - 0.004	0.01 AL
Potatoes	744	3	0.4	0.001 - 0.003	0.001 - 0.004	0.01 AL
Spinach	298	0			0.002 - 0.004	0.01 AL
Strawberries	744	0			0.004 - 0.010	0.01 AL
Sweet Corn, Fresh	668	0			0.004 - 0.040	0.01 AL
Sweet Corn, Frozen	75 720	0			0.004 - 0.040 0.002 - 0.004	0.01 AL
Sweet Potatoes TOTAL	<u>739</u> <b>8,842</b>	<u>0</u> <b>4</b>			0.002 - 0.004	0.01 AL
Hantachlan an arith air for stal		. 1\				
Heptachlor epoxide cis (metal Pears	polite of Heptacr 742	1 <b>10r)</b> 0			0.004 ^	0.01 AL
Tomato Paste	742	<u>0</u>			0.013 ^	0.01 AL
TOTAL	1,484	0				
Heptachlor epoxide trans (me	tabolite of Hepta	ichlor)				
Pears	742	0			0.004 ^	0.01 AL
Tomato Paste	<u>742</u>	<u>0</u>			0.013 ^	0.01 AL
TOTAL	1,484	0				
Hexachlorobenzene - HCB (im	purity of Quinto	zene)				
Apples	744	0			0.001 - 0.002	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.003	0.1
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.001 - 0.010	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	0.1
Lettuce, Organic	387	0			0.010 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.003	0.1
Potatoes	744	0			0.002 - 0.003	0.1
Spinach	744	0			0.001 - 0.002	NT
		•			0.002 ^	NT
Strawberries	210	0				
Strawberries Sweet Corn, Fresh	210 201	0			0.002 ^	NT
	201 8				0.002 ^ 0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^ 0.002 ^	
Sweet Corn, Fresh Sweet Corn, Frozen	201 8	0 0			0.002 ^	NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	201 8 210	0 0 0			0.002 ^ 0.002 ^	NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide)	201 8 210 742 <b>6,666</b>	0 0 0 <u>0</u>			0.002 ^ 0.002 ^ 0.009 ^	NT NT 0.1
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide) Apples	201 8 210 742 <b>6,666</b>	0 0 0 <u>0</u>			0.002 ^ 0.002 ^	NT NT 0.1
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide)	201 8 210 742 <b>6,666</b> 210 210	0 0 0 <u>0</u> <b>0</b>			0.002 ^ 0.002 ^ 0.009 ^	NT NT 0.1 NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide) Apples	201 8 210 742 <b>6,666</b>	0 0 0 <u>0</u> <b>0</b>			0.002 ^ 0.002 ^ 0.009 ^	NT NT 0.1 NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide) Apples Asparagus	201 8 210 742 <b>6,666</b> 210 210	0 0 0 <u>0</u> <b>0</b>			0.002 ^ 0.002 ^ 0.009 ^ 0.030 ^ 0.030 ^	NT NT 0.1 NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes	201 8 210 742 <b>6,666</b> 210 210 210 51 210	0 0 0 0 <b>0</b> 0			0.002 ^ 0.002 ^ 0.009 ^ 0.030 ^ 0.030 ^ 0.030 ^ 0.030 ^	NT NT 0.1 NT NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Hexaconazole (fungicide) Apples Asparagus Cucumbers Garbanzo Beans, Canned	201 8 210 742 <b>6,666</b> 210 210 210 51	0 0 0 0 0			0.002 ^ 0.002 ^ 0.009 ^ 0.030 ^ 0.030 ^ 0.030 ^	NT NT 0.1 NT NT NT NT

Destinida (Ossas Vi	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppi
Pinto Beans, Canned	105	0			0.030 ^	NT
Potatoes	210	0			0.030 ^	NT
Spinach	744	0			0.010 - 0.030	NT
Strawberries	210	0			0.030 ^	NT
Sweet Corn, Fresh	136	0			0.030 ^	NT
Sweet Corn, Frozen	3	0			0.030 ^	NT
Sweet Potatoes	<u>739</u>	Ω			0.010 - 0.030	NT
TOTAL	3,836	0				
Hexythiazox (insecticide, acaric						
Apples	210	6	2.9	0.005 - 0.026	0.003 ^	0.25
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	0			0.003 - 0.006	0.75
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	0.35
Pears	742	0			0.015 ^	0.25
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	Ö			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	744	55	7.4	0.005 - 0.60	0.003 - 0.006	3.0
Sweet Corn, Fresh	201		7.4	0.005 - 0.00	0.003 ^	NT
•	8	0			0.003 ^	
Sweet Corn, Frozen		0				NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	4,119	61				
Hydroprene (insect growth reg						
Apples	534	0			0.013 ^	0.2
Asparagus	331	0			0.030 ^	0.2
Cilantro	184	0			0.013 ^	0.2
Cucumbers	534	0			0.013 ^	0.2
Green Onions	<u>558</u>	<u>0</u>			0.013 ^	0.2
TOTAL	2,141	0				
3-Hydroxycarbofuran (metaboli		•				
Apples	744	0			0.002 - 0.006	NT
Asparagus (V-2)	744	2	0.3	0.011 - 0.036	0.006 - 0.010	NT
Cilantro (V-2)	184	2	1.1	0.088 - 0.16	0.002 - 0.005	NT
Cucumbers	744	0			0.002 - 0.006	0.2
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	744	0			0.001 - 0.006	0.2
Green Onions	558	0			0.004 ^	NT
	186	0			0.003 - 0.006	NT
Kidney Beans, Canned						
Kidney Beans, Canned Lettuce, Organic					0 020 ^	NI
Lettuce, Organic	387	0			0.020 ^	NT NT
Lettuce, Organic Oranges	387 744	0 0			0.006 - 0.010	NT
Lettuce, Organic Oranges Pears	387 744 742	0 0 0			0.006 - 0.010 0.018 ^	NT NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned	387 744 742 372	0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006	NT NT NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes	387 744 742 372 744	0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006	NT NT NT 1
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach	387 744 742 372 744 744	0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010	NT NT NT 1 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes	387 744 742 372 744	0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006	NT NT NT 1
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach	387 744 742 372 744 744	0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010	NT NT NT 1 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries	387 744 742 372 744 744	0 0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006	NT NT NT 1 NT 0.2
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh	387 744 742 372 744 744 744 668	0 0 0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen	387 744 742 372 744 744 744 668 75	0 0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL	387 744 742 372 744 744 744 668 75 739 10,049	0 0 0 0 0 0 0 0 0 0			0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  5-Hydroxythiabendazole (metal	387 744 742 372 744 744 744 668 75 739 10,049	0 0 0 0 0 0 0 0 0 0	2.4	0.005 - 0.018	0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2 0.2 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  5-Hydroxythiabendazole (metal Apples	387 744 742 372 744 744 744 668 75 739 10,049	0 0 0 0 0 0 0 0 0 0 0 4	2.4	0.005 - 0.018	0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2 0.2 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  5-Hydroxythiabendazole (metal Apples Asparagus	387 744 742 372 744 744 744 668 75 739 10,049  bolite of Thiabe	0 0 0 0 0 0 0 0 0 0 0 <b>0</b> <b>4</b>	2.4	0.005 - 0.018	0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2 0.2 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  5-Hydroxythiabendazole (metal Apples Asparagus Cucumbers	387 744 742 372 744 744 668 75 739 10,049 bolite of Thiabe 210 210	0 0 0 0 0 0 0 0 0 0 <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b>	2.4	0.005 - 0.018	0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 1 NT 0.2 0.2 0.2 NT
Lettuce, Organic Oranges Pears Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  5-Hydroxythiabendazole (metal Apples Asparagus	387 744 742 372 744 744 744 668 75 739 10,049  bolite of Thiabe	0 0 0 0 0 0 0 0 0 0 0 <b>0</b> <b>4</b>	2.4	0.005 - 0.018	0.006 - 0.010 0.018 ^ 0.003 - 0.006 0.003 - 0.006 0.006 - 0.010 0.001 - 0.006 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010 0.006 - 0.010	NT NT NT 1 NT 0.2 0.2 0.2 NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Oranges	210	2	1.0	0.005 ^	0.003 ^	10.0
Pinto Beans, Canned	105	0	1.0	0.005	0.003 ^	NT
Potatoes	210	0			0.003 ^	10.0
Spinach	210	0			0.003 ^	NT
•	210	0			0.003 ^	
Strawberries	201				0.003 ^	5.0 NT
Sweet Corn, Fresh		0				
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>2,309</b>	<u>0</u> <b>7</b>			0.003 ^	0.05
	_,,	•				
Imazalil (fungicide)	744	0			0.003 - 0.010	NT
Apples		0	0.5	0.005.4		
Asparagus (V-1)	210	1	0.5	0.005 ^	0.003 ^	NT
Cilantro	184	0			0.010 ^	NT
Cucumbers (V-1)	744	1	0.1	0.005 ^	0.003 - 0.010	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	0			0.001 - 0.003	NT
Green Onions	542	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	611	82.1	0.005 - 0.57	0.003 - 0.010	10.0
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	744	0			0.003 - 0.010	NT
Strawberries	744	Ö			0.001 - 0.003	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
•	8	0			0.003 ^	NT
Sweet Corn, Frozen	-					
Sweet Potatoes TOTAL	<u>739</u> <b>6,768</b>	<u>0</u> <b>613</b>			0.003 - 0.010	NT
	,					
Imidacloprid (insecticide)	744	400	40.0	0.000 0.054	0.004 0.000	0.5
Apples	744	126	16.9	0.002 - 0.051	0.001 - 0.006	0.5
Asparagus (V-1)	210	1	0.5	0.010 ^	0.006 ^	NT
Cilantro	184	47	25.5	0.002 - 0.040	0.001 - 0.003	8.0
Cucumbers	744	36	4.8	0.002 - 0.074	0.001 - 0.006	0.5
Garbanzo Beans, Canned	186	0			0.003 - 0.006	4.0
Grapes (X-1)	744	391	52.6	0.002 - 1.1	0.002 - 0.006	1.0
Green Onions (V-10)	558	10	1.8	0.002 - 0.003	0.001 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.006	4.0
Lettuce, Organic	387	Ö			0.010 ^	3.5
Oranges	744	10	1.3	0.010 - 0.038	0.006 - 0.010	0.7
	744 742	37	5.0	0.010 - 0.038	0.000 - 0.010	_
Pears			5.0	0.025 - 0.15		0.6
Pinto Beans, Canned	372	0	05.4	0.000 0.000	0.003 - 0.006	4.0
Potatoes	744	189	25.4	0.003 - 0.088	0.003 - 0.006	0.40
Spinach	744	316	42.5	0.010 - 0.64	0.006 - 0.010	3.5
Strawberries	744	104	14.0	0.002 - 0.080	0.002 - 0.006	0.50
Sweet Corn, Fresh	201	0			0.006 ^	0.05
Sweet Corn, Frozen	8	0			0.006 ^	0.05
Sweet Potatoes	<u>739</u>	<u>0</u>			0.006 - 0.010	0.40
TOTAL	8,981	1,267				
Imidacloprid urea (metabolite	of Imidacloprid)	)				
Grapes	534	2	0.4	0.011 - 0.013	0.011 ^	1.0
Strawberries	534	0			0.011 ^	0.50
Sweet Corn, Fresh	467	0			0.020 ^	0.05
Sweet Corn, Frozen	67	<u>0</u>			0.020 ^	0.05
TOTAL	1,602	2				2.00
Imiprothrin (insecticide)						
Apples	210	0			0.030 ^	NT
Asparagus	744	0			0.030 - 0.040	NT
Cucumbers	210	0			0.030 - 0.040	NT
Garbanzo Beans, Canned	186				0.042 ^	NT
-		0				
Grapes	744	0			0.030 - 0.12	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Kidney Beans, Canned	186	0	20100110110	Dotootou, pp	0.010 - 0.030	NT
Oranges	210	0			0.010 - 0.030	NT
Pinto Beans, Canned	372	0			0.030	NT
Potatoes	744	0			0.010 - 0.042	NT
Spinach (V-1)	210	1	0.5	0.034 ^	0.030 ^	NT
Strawberries	744	0	0.0	0.054	0.030 - 0.12	NT
Sweet Corn, Fresh	668	0			0.030 - 0.090	NT
Sweet Corn, Frozen	75	0			0.030 - 0.040	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.030 ^	NT
TOTAL	5,513	1				
Indoxacarb (insecticide)						
Apples	210	1	0.5	0.010 ^	0.006 ^	1.0
Asparagus	210	0			0.006 ^	NT
Cucumbers	210	0			0.006 ^	0.60
Garbanzo Beans, Canned	186	0			0.006 - 0.010	NT
Grapes	744	33	4.4	0.010 - 0.13	0.006 - 0.021	2.0
Kidney Beans, Canned	186	0			0.006 - 0.010	NT
Lettuce, Organic	387	0			0.10 ^	14
Oranges	744	0			0.006 - 0.010	NT
Pears	742	0			0.015 ^	0.20
Pinto Beans, Canned	372	0			0.006 - 0.010	NT
Potatoes	744	0			0.006 - 0.010	0.01
Spinach	744	8	1.1	0.010 - 0.37	0.006 - 0.010	14
Strawberries	744	0			0.006 - 0.021	NT
Sweet Corn, Fresh	668	0			0.006 - 0.040	0.02
Sweet Corn, Frozen	75	0			0.006 - 0.040	0.02
Sweet Potatoes	739	0			0.006 - 0.010	0.01
Tomato Paste	<u>742</u>	<u>0</u>			0.049 ^	0.50
TOTAL	8,447	42				
Iprodione (fungicide)						
Apples	714	0			0.008 - 0.028	NT
Asparagus	210	0			0.015 ^	NT
Cucumbers (V-1)	744	1	0.1	0.17 ^	0.008 - 0.028	NT
Garbanzo Beans, Canned	186	0			0.015 - 0.021	2.0
Grapes	744	127	17.1	0.025 - 0.85	0.015 - 0.050	60.0
Green Onions	526	0			0.008 - 0.056	NT
Kidney Beans, Canned	186	0			0.015 - 0.021	2.0
Oranges	210	0			0.015 ^	NT
Pears (V-1)	742	1	0.1	0.076 ^	0.046 ^	NT
Pinto Beans, Canned	372	0			0.015 - 0.021	2.0
Potatoes	744	0			0.015 - 0.021	0.5
Spinach	210	0			0.015 ^	NT
Strawberries	744	4	0.5	0.049 - 0.72	0.015 - 0.025	15.0
Sweet Corn, Fresh	201	0			0.015 ^	NT
Sweet Corn, Frozen	8	0			0.015 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>6,751</b>	<u>0</u> 133			0.015 ^	NT
	, -					
Iprovalicarb (fungicide)	E0.4	0			0.002 ^	2
Grapes Strawberries	534 534	0			0.002 ^	
Strawberries Tomato Paste	534 <u>742</u>	0			0.002 ^	NT 1.0
TOTAL	1,810	<u>0</u> <b>0</b>			0.049 ^	1.0
Isofenphos (insecticide)						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Jaibanzo Dodino, Odiniou	01	U			0.000	
Grapes	210	0			0.003 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
	•		Deteotions	Deteoted, ppin		
Oranges	210 105	0 0			0.003 ^ 0.003 ^	NT NT
Pinto Beans, Canned Potatoes	210	0			0.003 ^	NT NT
	-	-				
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>Q</u>			0.003 ^	NT
TOTAL	2,309	0				
Kresoxim-methyl (fungicide)						
Apples	534	0			0.003 ^	0.5
Cilantro	184	0			0.003 ^	NT
Cucumbers	534	2	0.4	0.013 - 0.33	0.003 - 0.010	0.40
Grapes	534	16	3.0	0.008 - 0.075	0.008 ^	1.0
Green Onions	542	0			0.010 - 0.020	NT
Pears	742	Ö			0.040 ^	0.5
Strawberries	534	Q			0.008 ^	NT
TOTAL	3,604	18			0.000	141
Lindane - BHC gamma (insectici	do)					
Apples	744	0			0.002 - 0.003	NT
Asparagus	744	0			0.002 - 0.040	NT
Cilantro	152	0			0.010 - 0.019	NT
Cucumbers	715	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.013	0.5 AL
Grapes	744	0			0.002 - 0.021	0.5 AL
Green Onions	558	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.013	0.5 AL
Oranges	744	0			0.002 - 0.003	0.5 AL
Pinto Beans, Canned	372	0			0.002 - 0.013	0.5 AL
Potatoes	744	0			0.002 - 0.013	0.5 AL
Spinach	276	0			0.002 - 0.003	NT
Strawberries	744	0			0.002 - 0.021	0.5 AL
Sweet Corn, Fresh	668	Ö			0.002 - 0.040	0.5 AL
Sweet Corn, Frozen	75	0			0.002 - 0.040	0.5 AL
Sweet Potatoes	73 <u>9</u>	-			0.002 - 0.040	0.5 AL
TOTAL	8,391	<u>0</u> <b>0</b>			0.002 - 0.003	0.5 AL
Linuron (herbicide) Apples	744	0			0.003 - 0.006	NT
Asparagus	744	9	1.2	0.022 - 0.55	0.006 - 0.020	7.0
Cilantro (V-28)	184	28	15.2	0.010 - 0.36	0.010 ^	NT
Cucumbers	744	0	· <del>-</del> ·—		0.003 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.006	NT
Grapes	210	0			0.006 ^	NT
Green Onions (V-2)	558	2	0.4	0.005 ^	0.003 ^	NT
` ,	186		0.4	0.003	0.003	NT
Kidney Beans, Canned		0				
Oranges	210	0			0.006 ^	NT
Pinto Beans, Canned	372	0			0.003 - 0.006	NT
Potatoes	744	0		0.040 0.5:=	0.003 - 0.006	0.2
Spinach (V-7)	210	7	3.3	0.010 - 0.047	0.006 ^	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	668	0			0.006 - 0.040	0.25
Sweet Corn, Frozen	75	0			0.006 - 0.040	0.25
Sweet Potatoes	210	<u>0</u>			0.006 ^	NT
TOTAL	6,255	46				
Malathion (insecticide)		-			0.000 0.000	-
Apples	744	0			0.002 - 0.003	8
Asparagus	744	0			0.002 - 0.010	8 NT
Cilantro (V-10)	184	10	5.4	0.005 - 0.066	0.003 ^	

esticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppr
•	•		Detections	Detected, ppm	ppm	
Cucumbers	744	0			0.002 - 0.003	8
Garbanzo Beans, Canned	186	0			0.002 ^	8
Grapes	744	0			0.002 - 0.005	8
Green Onions	558	34	6.1	0.005 - 0.27	0.003 ^	8
Kidney Beans, Canned	186	0			0.002 ^	8
Lettuce, Organic	387	0			0.040 ^	8
Oranges	744	0			0.002 - 0.010	8
Pears	742	4	0.5	0.005 - 0.025	0.003 ^	8
Pinto Beans, Canned	372	0			0.002 ^	8
Potatoes	744	0			0.002 ^	8
Spinach	744	2	0.3	0.028 - 0.053	0.002 - 0.010	8
Strawberries	744	160	21.5	0.004 - 0.35	0.002 - 0.005	8
Sweet Corn, Fresh	668		21.0	0.004 0.00	0.002 - 0.003	2
·		0				
Sweet Corn, Frozen	75	0			0.002 - 0.010	2
Sweet Potatoes	739	0			0.002 - 0.010	1
Tomato Paste	<u>742</u>	<u>0</u>			0.011 ^	8
TOTAL	10,791	210				
Malathion oxygen analog (meta	bolite of Malat	hion)				
Apples	744	0			0.002 - 0.003	8
Asparagus	744	0			0.002 - 0.010	8
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	8
Garbanzo Beans, Canned	186	0			0.002 ^	8
,		0				
Grapes	744	-			0.002 - 0.003	8
Kidney Beans, Canned	186	0			0.002 ^	8
Lettuce, Organic	387	0			0.013 ^	8
Oranges	744	0			0.002 - 0.010	8
Pears	742	0			0.019 ^	8
Pinto Beans, Canned	372	0			0.002 ^	8
Potatoes	744	0			0.002 ^	8
Spinach	744	0			0.002 - 0.010	8
Strawberries	744	77	10.3	0.003 - 0.027	0.002 - 0.003	8
Sweet Corn, Fresh	668	0			0.002 - 0.010	2
Sweet Corn. Frozen	75	0			0.002 - 0.010	2
,	-	-				
Sweet Potatoes	739	0			0.002 - 0.010	1
Tomato Paste	<u>742</u>	<u>0</u>			0.062 ^	8
TOTAL	10,233	77				
Mandipropamide (fungicide)						
Apples	534	0			0.005 - 0.030	NT
Cilantro	184	0			0.005 - 0.015	NT
Cucumbers	534	7	1.3	0.008 ^	0.005 - 0.015	0.6
Grapes	534	0			0.020 ^	1.4
Green Onions	450	2	0.4	0.019 - 0.13	0.005 - 0.030	4
Strawberries			0.4	0.019 - 0.13	0.003 - 0.030	NT
TOTAL	<u>534</u> <b>2,770</b>	<u>0</u> <b>9</b>			0.020 ^	INI
MCPA (herbicide) Grapes	534	0			0.003 ^	NT
Strawberries					0.003 ^	NT
TOTAL	<u>534</u> <b>1,068</b>	<u>0</u> <b>0</b>			0.003 ^	INI
Mecoprop - MCPP (herbicide)						
Grapes	534	0			0.002 ^	NT
Strawberries	<u>534</u>	<u>O</u>			0.002 ^	NT
TOTAL	1,068	0				
Mepanipyrim (fungicide)						
Mepanipyrim (fungicide) Tomato Paste	<u>742</u>	<u>0</u>			0.41 ^	0.5

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Metalaxyl (fungicide)						
Apples	729	0			0.006 - 0.015	0.2
Asparagus	744	1	0.1	0.025 ^	0.015 ^	7.0
Cilantro (V-4)	184	4	2.2	0.010 - 0.12	0.006 ^	NT
Cucumbers	744	142	19.1	0.010 - 0.49	0.006 - 0.015	1.0
Garbanzo Beans, Canned	186	0			0.001 - 0.015	0.2
Grapes	744	0			0.015 - 0.089	2.0
Green Onions	558	0			0.020 ^	10.0
Kidney Beans, Canned	186	0			0.010 - 0.030	0.2
Oranges	744	0			0.015 - 0.020	1.0
Pinto Beans, Canned	372	0			0.001 - 0.015	0.2
Potatoes	744	39	5.2	0.001 - 0.012	0.001 - 0.015	0.5
Spinach	656	7	1.1	0.025 - 0.12	0.015 ^	10.0
Strawberries	744	12	1.6	0.025 - 0.26	0.015 - 0.089	10.0
Sweet Corn, Fresh	668	0	1.0	0.025 0.20	0.015 ^	0.1
•	75	0			0.015 ^	0.1
Sweet Corn, Frozen	_	-				_
Sweet Potatoes	739	0			0.015 ^	0.5
Tomato Paste	<u>742</u>	<u>O</u>			0.11 ^	3.0
TOTAL	9,559	205				
Methamidophos (insecticide)	(also a metabol	ite of Acenha	te)			
Apples	744	0	.0,		0.001 ^	0.02
Asparagus (X-3)	213	8	3.8	0.002 - 0.31	0.001 - 0.080	0.02
Cilantro	184	1	0.5	0.002 ^	0.001 ^	0.02
Cucumbers	744	28	3.8	0.002 - 0.20	0.001 ^	1.0
Garbanzo Beans, Canned	186	0	5.0	0.002 0.20	0.001 - 0.005	3.0
		-	0.4	0.000 0.047		
Grapes	744	18	2.4	0.002 - 0.017	0.001 - 0.002	0.02
Green Onions	558	0			0.001 ^	0.02
Kidney Beans, Canned	186	0			0.001 - 0.005	3.0
Oranges	744	0			0.001 - 0.010	0.02
Pinto Beans, Canned	372	0			0.001 - 0.005	3.0
Potatoes	744	1	0.1	0.002 ^	0.001 - 0.005	0.1
Spinach	744	1	0.1	0.002 ^	0.001 - 0.010	0.02
Strawberries	744	0			0.001 - 0.002	0.02
Sweet Corn, Fresh	201	0			0.001 ^	0.02
Sweet Corn, Frozen	8	0			0.001 ^	0.02
Sweet Potatoes (X-1)	739	2	0.3	0.005 - 0.038	0.001 - 0.010	0.02
Tomato Paste	742	<u>15</u>	2.0	0.020 - 0.074	0.012 ^	1.0
TOTAL	8,597	74				
Methidathion (insecticide)	744	•			0.000 4	0.05
Apples	744	0			0.002 ^	0.05
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	744	0			0.001 - 0.002	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	744	0			0.002 - 0.010	4.0
Pears	742	0			0.003 ^	0.05
Pinto Beans. Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	744	0			0.002 - 0.010	NT
Strawberries	744 744	0			0.002 - 0.010	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>739</u>	<u>Q</u>			0.002 - 0.010	NT
TOTAL	7,526	0				
Methidathion oxygen analog (i	metabolite of Ma	ethidathion\				
Apples	744	0			0.003 - 0.006	0.05
Asparagus	210	0			0.006 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
-	•		Detections	Detected, ppin		
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes	210	0			0.006 ^	NT
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.006 ^	NT
Oranges	210	0			0.006 ^	4.0
Pinto Beans, Canned	105	0			0.006 ^	NT
Potatoes	210	0			0.006 ^	NT
Spinach	210	0			0.006 - 0.020	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.006 ^	NT
TOTAL	4,119	0				
Methiocarb (insecticide) (anal	vzed as sulfoxio	de)				
Apples	744	0			0.001 - 0.006	NT
Asparagus	210	0			0.006 ^	NT
Cucumbers	744	0			0.001 - 0.006	NT
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes	210	0			0.006 ^	NT
Green Onions	558	0			0.003 - 0.006	NT
Kidney Beans, Canned	54	-			0.005 - 0.000	NT
-	-	0				
Oranges	320	0			0.006 - 0.010	NT
Pinto Beans, Canned	105	0			0.006 ^	NT
Potatoes	210	0			0.006 ^	NT
Spinach	298	0			0.006 - 0.010	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>320</u>	Ω			0.006 - 0.010	NT
TOTAL	4,243	0				
Methomyl (insecticide)						
Apples	744	3	0.4	0.016 - 0.020	0.002 - 0.012	1
Asparagus	744	24	3.2	0.010 - 0.63	0.010 - 0.012	2
Cilantro	184	0			0.002 - 0.008	NT
Cucumbers	744	22	3.0	0.004 - 0.067	0.002 - 0.012	0.2
Garbanzo Beans, Canned	186	0			0.010 - 0.012	2
Grapes	744	30	4.0	0.013 - 1.8	0.012 - 0.013	5
Green Onions	558	55	9.9	0.004 - 0.26	0.002 ^	3
Kidney Beans, Canned	186	0	0.0	0.001 0.20	0.010 - 0.012	2
Lettuce, Organic	387	0			0.20 ^	5
Oranges	744	0			0.010 - 0.012	2
Pears	742				0.010 ^	4
Pinto Beans, Canned	372	0				2
•		0			0.010 - 0.012	
Potatoes	744	0	4.4	0.040 0.74	0.010 - 0.012	0.2
Spinach	744	33	4.4	0.010 - 0.71	0.010 - 0.012	6
Strawberries	744	50	6.7	0.020 - 2.7	0.012 - 0.013	2
Sweet Corn, Fresh	668	1	0.1	0.011 ^	0.010 - 0.012	0.1
Sweet Corn, Frozen	75	0			0.010 - 0.012	0.1
Sweet Potatoes	739	0			0.010 - 0.012	0.2
Tomato Paste	<u>742</u>	<u>0</u>			0.016 - 0.032	1
TOTAL	10,791	218				
Methoprene (insect growth reg		0			0.014.4	NIT
Apples	534	0			0.014 ^	NT
Cilantro	184	0			0.048 ^	NT
Cucumbers	534	0			0.014 ^	NT
Green Onions	<u>558</u>	<u>0</u>			0.014 ^	NT
TOTAL	1,810	0				

Acceptable 10. Pr	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Methoxychlor Total (insecticide)	)					
Apples	534	0			0.002 ^	NT
Cilantro	184	0			0.006 ^	NT
Cucumbers	534	0			0.002 ^	NT
Grapes	534	0			0.076 ^	NT
Green Onions	542	0			0.002 - 0.006	NT
Strawberries	<u>534</u>	Ω			0.076 ^	NT
TOTAL	2,862	0				
Methoxychlor olefin (metabolite Apples	of Methoxych				0.001 ^	NT
Cilantro	122	0			0.001 ^	NT
	534	0				NT
Cucumbers		0			0.001 ^	
Green Onions	<u>526</u>	<u>0</u>			0.001 ^	NT
TOTAL	1,701	0				
Methoxychlor p,p' (isomer of Me	ethoxychlor)					
Apples	210	0			0.012 ^	NT
Asparagus	210	0			0.012 ^	NT
Cucumbers	210	0			0.012 ^	NT
Garbanzo Beans, Canned	51	0			0.012 ^	NT
Grapes	210	0			0.012 ^	NT
Kidney Beans, Canned	54	0			0.012 ^	NT
Oranges	744	0			0.012 - 0.025	NT
Pinto Beans, Canned	105	0			0.012 ^	NT
Potatoes	210	0			0.012 ^	NT
Spinach (V-1)	210	1	0.5	0.81 ^	0.012 ^	NT
Strawberries	210	0	0.5	0.01	0.012 ^	NT
	-	_				
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes TOTAL	<u>694</u> <b>3,327</b>	<u>0</u> 1			0.012 - 0.025	NT
	•					
Methoxyfenozide (insecticide)	744	93	12.5	0.002 - 0.11	0.001 - 0.003	1.5
Apples			12.3	0.002 - 0.11		
Asparagus	210	0	4.0	0.000 0.40	0.003 ^	NT
Cilantro	184	3	1.6	0.006 - 0.12	0.003 ^	30
Cucumbers	744	36	4.8	0.002 - 0.029	0.001 - 0.003	0.3
Garbanzo Beans, Canned	186	0			0.003 ^	0.2
Grapes	744	217	29.2	0.001 - 0.45	0.001 - 0.003	1.0
Green Onions	558	26	4.7	0.003 - 0.42	0.003 ^	5.0
Kidney Beans, Canned	186	0			0.003 ^	0.2
Oranges	744	0			0.003 - 0.010	NT
Pears	742	37	5.0	0.025 - 0.39	0.015 ^	1.5
Pinto Beans, Canned	372	0			0.003 ^	0.2
Potatoes	744	0			0.003 ^	0.10
Spinach	744	23	3.1	0.005 - 2.1	0.003 - 0.010	30
Strawberries	744	77	10.3	0.002 - 0.71	0.001 - 0.003	1.5
Sweet Corn, Fresh	668	0		*****	0.003 - 0.040	0.05
Sweet Corn, Frozen	75	0			0.003 - 0.040	0.05
Sweet Potatoes	739				0.003 - 0.040	0.03
TOTAL	9,128	<u>0</u> <b>512</b>			0.003 - 0.010	0.02
	•					
Metolachlor (herbicide) Apples	744	Λ			0.001 - 0.012	NT
		0				
Asparagus	744	0	4.4	0.000 *	0.010 - 0.012	0.10
Cilantro (V-2)	184	2	1.1	0.002 ^	0.001 ^	NT
Cucumbers (V-14)	744	14	1.9	0.002 ^	0.001 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.001 - 0.012	0.30
Grapes	744	0			0.012 - 0.015	NT
Green Onions	558	0			0.001 ^	2.0
Kidney Beans, Canned	186	0			0.010 - 0.012	0.30
Oranges	744				0.012 - 0.015	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values	Range of LODs,	EPA Tolerance
	•		Detections	Detected, ppm	ppm	Level, ppn
Pinto Beans, Canned	372	0			0.001 - 0.012	0.30
Potatoes	744	1	0.1	0.001 ^	0.001 - 0.012	0.20
Spinach	656	0			0.012 - 0.015	0.50
Strawberries	744	0			0.012 - 0.015	NT
Sweet Corn, Fresh	668	0			0.010 - 0.012	0.10
Sweet Corn, Frozen	75	0			0.010 - 0.012	0.10
Sweet Potatoes	739	0			0.012 - 0.015	0.20
Tomato Paste	742				0.081 ^	0.30
TOTAL	9,574	<u>0</u> 17			0.001	0.30
TOTAL	9,574	17				
Metribuzin (herbicide)						
Apples	709	0			0.013 - 0.088	NT
Asparagus (X-1)	744	7	0.9	0.028 - 1.7	0.020 - 0.030	0.1
Cilantro	184	0			0.044 ^	NT
Cucumbers	684	0			0.013 - 0.030	NT
Garbanzo Beans, Canned	186				0.005 - 0.030	NT
•		0				
Grapes	210	0			0.030 ^	NT
Green Onions	558	0			0.044 ^	NT
Kidney Beans, Canned	186	0			0.030 - 0.045	NT
Oranges	210	0			0.030 ^	NT
Pinto Beans, Canned	372	0			0.005 - 0.045	NT
Potatoes	744	6	0.8	0.005 - 0.017	0.005 - 0.045	0.6
Spinach	210	0			0.030 ^	NT
Strawberries	210	0			0.030 ^	NT
Sweet Corn, Fresh	668	0			0.030 ^	0.05
Sweet Corn, Frozen	75	0			0.030 ^	0.05
Sweet Potatoes	<u>210</u>	<u>0</u>			0.030 ^	NT
TOTAL	6,160	13				
Mevinphos (insecticide)	744	0			0.001 - 0.002	NT
Apples		0				
Asparagus	210	0			0.001 ^	NT
Cucumbers	744	0			0.001 - 0.002	0.2
Garbanzo Beans, Canned	51	0			0.001 ^	NT
Grapes	744	0			0.001 - 0.006	0.5
Green Onions	558	0			0.005 ^	NT
Kidney Beans, Canned	54	0			0.001 ^	NT
	744				0.001 - 0.025	NT
Oranges		0				
Pinto Beans, Canned	105	0			0.001 ^	NT
Potatoes	210	0			0.001 ^	NT
Spinach	656	0			0.001 - 0.008	1.0
Strawberries	744	0			0.001 - 0.006	1.0
Sweet Corn, Fresh	201	0			0.001 ^	NT
Sweet Corn, Frozen	8	0			0.001 ^	NT
Sweet Potatoes	717				0.001 - 0.025	NT
		0				
Tomato Paste	<u>742</u>	<u>0</u>			0.006 ^	0.2
TOTAL	7,232	0				
MGK-264 (insecticide)						
Apples	210	0			0.012 ^	10
Asparagus	744				0.012 - 0.040	10
. •		0				
Cucumbers	210	0			0.012 ^	10
Garbanzo Beans, Canned	51	0			0.012 ^	10
· · · · · · · · · · · · · · · · · · ·	210	0			0.012 ^	10
Grapes		0			0.012 ^	10
· · · · · · · · · · · · · · · · · · ·	54				0.018 ^	10
Grapes Kidney Beans, Canned		0				
Grapes Kidney Beans, Canned Oranges	210	0				10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned	210 105	0			0.012 ^	10 10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes	210 105 210	0 0			0.012 ^ 0.012 ^	10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach	210 105 210 210	0			0.012 ^ 0.012 ^ 0.012 ^	10 10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes	210 105 210	0 0			0.012 ^ 0.012 ^	10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach	210 105 210 210	0 0 0			0.012 ^ 0.012 ^ 0.012 ^	10 10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries	210 105 210 210 210	0 0 0 0			0.012 ^ 0.012 ^ 0.012 ^ 0.012 ^	10 10 10
Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh	210 105 210 210 210 668	0 0 0 0			0.012 ^ 0.012 ^ 0.012 ^ 0.012 ^ 0.012 - 0.040	10 10 10 10

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
-	Gumpioo	Dottottionic	20100110110	Dotootou, pp	pp	<b>2010</b> , рр.:
Monocrotophos (insecticide) Apples	210	0			0.003 ^	NT
• •	210	0 0			0.003 ^	NT
Asparagus Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	210 51	0			0.003 ^	NT
Grapes	744	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.010	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	656	0			0.003 - 0.008	NT
Strawberries	744	0			0.001 - 0.003	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	210	<u>0</u>			0.003 ^	NT
TOTAL	4,357	<u>0</u> 0			0.003 ^	INI
Maria la la cata col II (franco de la la )						
Myclobutanil (fungicide) Apples	744	26	3.5	0.002 - 0.022	0.001 - 0.021	0.5
Asparagus	726	0	0.0	0.002 0.022	0.025 - 0.042	0.02
Cilantro	184	4	2.2	0.002 - 0.007	0.001 ^	9.0
Cucumbers	744	25	3.4	0.002 - 0.007	0.001 - 0.042	0.20
Garbanzo Beans, Canned	186	0	5.4	0.002 0.070	0.003 - 0.030	1.0
Grapes	744	264	35.5	0.001 - 0.54	0.001 - 0.021	1.0
Green Onions	558	0	00.0	0.001 - 0.04	0.003 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.030	1.0
Oranges	534	0			0.015 ^	NT
Pinto Beans, Canned	372	0			0.003 - 0.030	1.0
Potatoes	744	0			0.003 - 0.030	0.03
Spinach	708	0				0.03
Strawberries (X-1)	708 744	221	29.7	0.001 - 0.66	0.015 - 0.075 0.001 - 0.021	0.03
` ,	617		29.1	0.001 - 0.00		
Sweet Corn, Fresh	-	0			0.025 - 0.030	0.03
Sweet Corn, Frozen Sweet Potatoes	72 739	0			0.025 - 0.030	0.03
Tomato Paste		0			0.015 - 0.050	0.03 1.0
TOTAL	<u>742</u> <b>9,344</b>	<u>0</u> <b>540</b>			0.11 ^	1.0
	•					
Naled (insecticide) Lettuce, Organic	387	0			0.050 ^	1
					0.004 ^	
Pears	<u>742</u>	<u>0</u>			0.004 ^	0.5
TOTAL	1,129	0				
1-Naphthol (metabolite of Carba	• /					
Apples	210	1	0.5	0.020 ^	0.012 ^	12
		0			0.20 ^	15
Asparagus	511					
Garbanzo Beans, Canned	186	0			0.012 - 0.030	NT
Garbanzo Beans, Canned Grapes	186 175	0 1	0.6	0.078 ^	0.012 - 0.040	10
Garbanzo Beans, Canned Grapes Kidney Beans, Canned	186 175 186	0 1 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025	10 NT
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned	186 175 186 267	0 1 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^	10 NT NT
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes	186 175 186 267 534	0 1 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^	10 NT NT 2.0
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach	186 175 186 267 534 210	0 1 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^	10 NT NT 2.0 22
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh	186 175 186 267 534 210 668	0 1 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20	10 NT NT 2.0 22 0.1
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach	186 175 186 267 534 210 668 75	0 1 0 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^	10 NT NT 2.0 22 0.1
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	186 175 186 267 534 210 668 75	0 1 0 0 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20	10 NT NT 2.0 22 0.1
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen	186 175 186 267 534 210 668 75	0 1 0 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20	10 NT NT 2.0 22 0.1
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide)	186 175 186 267 534 210 668 75 210 3,232	0 1 0 0 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.20	10 NT NT 2.0 22 0.1 0.1 0.2
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide) Apples	186 175 186 267 534 210 668 75 210 <b>3,232</b>	0 1 0 0 0 0 0 0 0 0 2	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.040 0.007 - 0.045	10 NT NT 2.0 22 0.1 0.1 0.2
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide) Apples Asparagus	186 175 186 267 534 210 668 75 210 <b>3,232</b>	0 1 0 0 0 0 0 0 0	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.040 0.007 - 0.045 0.045 - 0.066	10 NT NT 2.0 22 0.1 0.1 0.2
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide) Apples	186 175 186 267 534 210 668 75 210 <b>3,232</b>	0 1 0 0 0 0 0 0 0 0 2	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.040 0.007 - 0.045	10 NT NT 2.0 22 0.1 0.1 0.2
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide) Apples Asparagus	186 175 186 267 534 210 668 75 210 <b>3,232</b> 744 744 168 735	0 1 0 0 0 0 0 0 0 0 <b>2</b>	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.040 0.007 - 0.045 0.045 - 0.066	10 NT NT 2.0 22 0.1 0.1 0.2
Garbanzo Beans, Canned Grapes Kidney Beans, Canned Pinto Beans, Canned Potatoes Spinach Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Napropamide (herbicide) Apples Asparagus Cilantro	186 175 186 267 534 210 668 75 210 <b>3,232</b> 744 744 168	0 1 0 0 0 0 0 0 0 0 <b>2</b>	0.6	0.078 ^	0.012 - 0.040 0.012 - 0.025 0.025 ^ 0.025 ^ 0.012 ^ 0.012 - 0.20 0.012 - 0.20 0.012 - 0.040 0.007 - 0.045 0.045 - 0.066 0.007 ^	10 NT NT 2.0 22 0.1 0.1 0.2

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppr
Green Onions	•			20100134, pp.11	0.007 ^	NT
	558	0				
Kidney Beans, Canned	54	0			0.045 ^	NT 0.4
Oranges	744	0			0.010 - 0.045	0.1
Pears	742	0			0.038 ^	0.1
Pinto Beans, Canned	105	0			0.045 ^	NT
Potatoes	210	0			0.045 ^	NT
Spinach	744	0			0.010 - 0.045	NT
Strawberries	744	0			0.010 - 0.045	0.1
Sweet Corn, Fresh	183	0			0.045 - 0.080	NT
Sweet Corn, Frozen	8	0			0.045 ^	NT
Sweet Potatoes	739	0			0.010 - 0.045	0.1
Tomato Paste	742	<u>0</u>			0.13 ^	0.1
TOTAL	8,759	0				
Nicosulfuron (herbicide)						
Sweet Corn, Fresh	467	0			0.008 ^	0.1
Sweet Corn, Frozen	<u>67</u>	<u>0</u>			0.008 ^	0.1
TOTAL	534	<u>o</u> 0			3.000	0.1
IVIAL	J34	U				
Norflurazon (herbicide)	594	^			0.005 0.004	0.1
Apples		0			0.005 - 0.021	
Asparagus	744	0			0.021 - 0.030	0.05
Cilantro	170	0			0.005 ^	NT
Cucumbers	744	0			0.005 - 0.032	NT
Garbanzo Beans, Canned	51	0			0.021 - 0.050	NT
Grapes	744	0			0.001 - 0.021	0.1
Green Onions	542	0			0.005 - 0.032	NT
Kidney Beans, Canned	54	0			0.021 ^	NT
Oranges	744	Ö			0.010 - 0.030	0.2
Pears	742	0			0.060 ^	0.1
Pinto Beans, Canned	105				0.021 ^	NT
-	210	0			0.021 ^	NT
Potatoes		0				
Spinach	721	0			0.010 - 0.021	NT
Strawberries	744	0			0.001 - 0.021	NT
Sweet Corn, Fresh	201	0			0.021 ^	NT
Sweet Corn, Frozen	8	0			0.021 ^	NT
Sweet Potatoes	<u>739</u>	<u>0</u>			0.010 - 0.021	NT
TOTAL	7,857	0				
Norflurazon desmethyl (metab	olite of Norflura	ızon)				
Apples	729	0			0.018 - 0.12	0.1
Asparagus	744	0			0.010 - 0.060	0.05
Cilantro	106	Ö			0.060 - 0.12	NT
Cucumbers	744	Ö			0.018 - 0.25	NT
Garbanzo Beans, Canned	51	0			0.060 ^	NT
Grapes	744	0			0.000 1	0.1
-		0				
Green Onions	528				0.018 - 0.12	NT
Kidney Beans, Canned	54	0			0.060 ^	NT
Oranges	744	0			0.010 - 0.060	0.2
Pears	742	0			0.055 ^	0.1
Pinto Beans, Canned	105	0			0.060 ^	NT
Potatoes	192	0			0.060 ^	NT
Spinach	744	0			0.010 - 0.060	NT
Strawberries	744	Ö			0.004 - 0.060	NT
Sweet Corn, Fresh	201	0			0.060 ^	NT
Sweet Corn, Frozen	8	0			0.060 ^	NT
Sweet Com, 1102em	<u>739</u>				0.010 - 0.060	NT
TOTAL	7,919	<u>0</u> <b>0</b>			0.010 - 0.060	INI
Novaluron (insecticide)						
Oranges	534	0			0.010 ^	NT
Spinach	88	Ö			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	0.05
					U.U.U.	0.00
TOTAL	1,151	0			*****	

Pacticida / Common alling	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Omethoate (insecticide) (also		•				
Apples (V-2)	744	2	0.3	0.004 - 0.012	0.002 - 0.003	NT
Asparagus	210	0			0.003 ^	0.15
Cilantro (V-2)	184	2	1.1	0.43 - 0.44	0.002 ^	NT
Cucumbers (V-9)	744	9	1.2	0.004 - 0.077	0.002 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.020	2.0
Grapes (V-2)	744	2	0.3	0.005 - 0.009	0.002 - 0.003	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.020	2.0
Oranges	744	0	0.0	0.045.4	0.003 - 0.010	2.0
Pears Pinto Poons Conned	742 372	2	0.3	0.015 ^	0.009 ^	2.0 2.0
Pinto Beans, Canned		0			0.003 - 0.020	
Potatoes	744	0	2.0	0.005 0.70	0.003 - 0.020	0.2
Spinach (V-24)	744	24	3.2	0.005 - 0.76	0.003 - 0.010	NT
Strawberries	744	0			0.002 - 0.003	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	739	0			0.003 - 0.010	NT
Tomato Paste	<u>742</u>	<u>0</u>			0.029 ^	2.0
TOTAL	9,336	41				
Oryzalin (herbicide)						
Oranges	534	0			0.020 ^	0.05
Spinach	534	0			0.020 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.020 ^	NT
TOTAL	1,597	0				
Oxadixyl (fungicide)						
Apples	744	0			0.013 - 0.021	NT
Asparagus	210	0			0.021 ^	NT
Cilantro	184	0			0.013 ^	NT
Cucumbers	744	0			0.013 - 0.021	NT
Garbanzo Beans, Canned	51	0			0.021 ^	NT
Grapes	210	0			0.021 ^	NT
Green Onions	558	0			0.013 ^	NT
Kidney Beans, Canned	54	0			0.021 ^	NT
Oranges	744	0			0.010 - 0.030	NT
Pinto Beans, Canned	105	0			0.021 ^	NT
Potatoes	210	0			0.021 ^	NT
Spinach	210	0			0.021 ^	NT
Strawberries	210	0			0.021 ^	NT
Sweet Corn, Fresh	201	0			0.021	NT
Sweet Corn, Frozen	8	0			0.021 ^	NT
Sweet Potatoes	739				0.021	NT
TOTAL	5,182	<u>0</u> <b>0</b>			0.010 - 0.021	INI
	-,	-				
Oxamyl (insecticide) Apples	744	0			0.002 - 0.006	2
Asparagus	210	0			0.002 - 0.000	NT
Cilantro	184				0.000 ^	NT
Cucumbers	744	0 84	11.3	0.006 - 1.4	0.002 ^	2.0
Garbanzo Beans, Canned	186		11.5	0.000 - 1.4	0.003 - 0.006	NT
·		0			0.003 - 0.006	
Grapes	210 550	0				NT
Green Onions	558 196	0			0.002 - 0.006	NT
Kidney Beans, Canned	186	0			0.003 - 0.006	NT
Oranges	744	0			0.006 - 0.010	3
Pears	742	0			0.015 ^	2.0
Pinto Beans, Canned	372	0	0.0	0.004.4	0.003 - 0.006	NT 0.4
Potatoes	744	2	0.3	0.004 ^	0.003 - 0.006	0.1
Spinach	744	0			0.006 - 0.010	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh Sweet Corn, Frozen	201	0			0.006 ^	NT
	8	0			0.006 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Detections	Detected, ppm	ppm	
Sweet Potatoes	739	0			0.006 - 0.010	0.1
Tomato Paste TOTAL	<u>742</u> 8, <b>268</b>	<u>0</u> <b>86</b>			0.049 ^	2
Oxamyl oxime (metabolite of 0	Oxamyl)					
Apples	210	0			0.012 ^	2
Asparagus	210	0			0.012 ^	NT
Cucumbers	210	39	18.6	0.020 - 0.64	0.012 ^	2.0
Garbanzo Beans, Canned	186	0			0.003 - 0.012	NT
Grapes	744	0			0.012 - 0.035	NT
Kidney Beans, Canned	186	0			0.003 - 0.012	NT
Oranges	744	0			0.010 - 0.012	3
Pinto Beans, Canned	372	0			0.003 - 0.012	NT
Potatoes	744	2	0.3	0.004 - 0.006	0.003 - 0.012	0.1
Spinach	298	0			0.010 - 0.012	NT
Strawberries (V-1)	744	1	0.1	0.051 ^	0.012 - 0.035	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes	<u>739</u>	<u>Q</u>			0.010 - 0.012	0.1
TOTAL	5,596	42				
Oxychlordane (metabolite of C	•				0.000 0.000	0.4.41
Apples	534	0			0.002 - 0.008	0.1 AL
Cilantro	170	0			0.008 ^	NT
Cucumbers	534	0			0.002 - 0.008	0.1 AL
Green Onions TOTAL	<u>558</u> 1, <b>796</b>	<u>0</u> <b>0</b>			0.002 - 0.008	0.1 AL
Oxydemeton methyl (insectici	do)					
Grapes	534	0			0.003 ^	NT
Oranges	534	0			0.003	1.0
Spinach	88	0			0.010 ^	NT
Strawberries	534	0			0.003 ^	2.0
Sweet Corn, Fresh	467	0			0.008 ^	0.5
Sweet Corn, Frozen	67	0			0.008 ^	0.5
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	2,753	0			0.010	
Oxydemeton methyl sulfone (r	metabolite of Ox	vdemeton me	thvl)			
Apples		•	,		0.006 - 0.012	NT
Asparagus	210	0			0.006 ^	NT
Cilantro	184	0			0.012 ^	NT
Cucumbers	744	0			0.006 - 0.020	1.0
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes	210	0			0.006 ^	NT
Green Onions	558	0			0.040 ^	NT
Kidney Beans, Canned	54	0			0.006 ^	NT
Oranges	744	0			0.006 - 0.010	1.0
Pinto Beans, Canned	105	0			0.006 ^	NT
Potatoes	210	0			0.006 ^	NT
Spinach (V-1)	726	1	0.1	0.032 ^	0.006 - 0.020	NT
Strawberries	210	0			0.006 ^	2.0
Sweet Corn, Fresh	668	0			0.006 - 0.008	0.5
Sweet Corn, Frozen	75	0			0.006 - 0.008	0.5
Sweet Potatoes	<u>739</u>	<u>O</u>			0.006 - 0.010	NT
TOTAL	6,232	1				
Oxyfluorfen (herbicide)						
Apples	744	0			0.003 - 0.030	0.05
Asparagus	210	0			0.030 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers Garbanzo Beans, Canned	744 51	0 0			0.003 - 0.030 0.030 ^	NT NT

osticido / Commadity	Number of	Samples with Detections	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
esticide / Commodity	Samples		Detections	Detected, ppm	ppm	Level, ppr
Grapes	210	0			0.030 ^	0.05
Green Onions (V-1)	558	1	0.2	0.005 ^	0.003 ^	NT
Kidney Beans, Canned	54	0			0.030 ^	NT
Oranges	210	0			0.030 ^	NT
Pears	742	0			0.037 ^	0.05
Pinto Beans, Canned	105	0			0.030 ^	NT
Potatoes	210	0			0.030 ^	NT
Spinach	210	0			0.030 ^	NT
Strawberries	210	0			0.030 ^	NT
Sweet Corn, Fresh	167	0			0.030 ^	NT
Sweet Corn, Frozen	6	0			0.030 ^	NT
Sweet Potatoes	210	<u>0</u>			0.030 ^	NT
TOTAL	4,825	<u>0</u> 1			0.000	
2						
Parathion (insecticide)	744	^			0.000 0.000	N.T
Apples	744	0			0.002 - 0.003	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	744	0			0.002 - 0.040	NT
Green Onions	558	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	656	0			0.002 - 0.008	NT
Strawberries	744	0			0.002 - 0.040	NT
Sweet Corn, Fresh	668	0			0.002 - 0.040	1.0
· · · · · · · · · · · · · · · · · · ·		-				
Sweet Corn, Frozen	75	0			0.002 - 0.040	1.0
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL	5,983	0				
Parathion methyl (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.010	NT
Grapes	210	0			0.002 ^	NT
•	528	0				1.0
Green Onions					0.008 - 0.040	-
Kidney Beans, Canned	186	0			0.002 - 0.010	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.010	NT
Potatoes	744	0			0.002 - 0.010	0.1
Spinach	656	0			0.002 - 0.004	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.080	1.0
Sweet Corn, Frozen	75	0			0.002 - 0.080	1.0
Sweet Potatoes	<u>210</u>	Q			0.002 ^	0.1
TOTAL	5,953	0			0.002	0
Davethian mathed survey	(mataka !!! -	of Downth!	athud)			
Parathion methyl oxygen analog	-		ietnyi)		0.000 0.005	
Apples	744	0			0.003 - 0.005	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	744	0			0.003 - 0.005	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.020	NT
Grapes	210	0			0.003 ^	NT
Green Onions	558	0			0.005 ^	1.0
Kidney Beans, Canned	186	0			0.003 - 0.020	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	372	0			0.003 - 0.020	NT
Potatoes	744	-			0.003 - 0.020	0.1
		0			0.003 - 0.020	0.1 NT
Chinach						
Spinach Strawberries	210 210	0 0			0.003 ^	NT

Destinide / Common differ	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Sweet Corn, Fresh	668	0			0.003 - 0.032	1.0
Sweet Corn, Frozen	75	0			0.003 - 0.032	1.0
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	0.1
TOTAL	5,537	0				
Parathion oxygen analog (meta		•				
Apples	744	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers Garbanzo Beans, Canned	744	0			0.003 ^	NT
•	51	0			0.003 ^	NT NT
Grapes Green Onions	210 558	0			0.003 ^ 0.010 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
	210	0			0.003 ^	NT
Oranges Pinto Beans, Canned	210 105	0 0			0.003 ^	
Potatoes	210	0			0.003 ^	NT NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	1.0
Sweet Corn, Frozen	8	0			0.003 ^	1.0
Sweet Potatoes	2 <u>10</u>				0.003 ^	NT
TOTAL	3,935	<u>0</u> <b>0</b>			0.003	INI
Dougline of both in the orbinists						
Pendimethalin (herbicide) Apples	744	11	1.5	0.004 - 0.021	0.002 - 0.021	0.10
• •			1.5	0.004 - 0.021		
Asparagus	744	0	0.5	0.004 0.000	0.021 - 0.050	0.15
Cilantro (V-12) Cucumbers	184 744	12 0	6.5	0.004 - 0.062	0.002 ^ 0.002 - 0.021	NT NT
Garbanzo Beans, Canned	744 51	0			0.002 - 0.021	0.10
Grapes	744	0			0.021	0.10
Green Onions	558	0			0.002 ^	0.1
Kidney Beans, Canned	54	0			0.002 ^	0.20
Oranges	744	0			0.015 - 0.021	0.10
Pears	742	0			0.046 ^	0.10
Pinto Beans, Canned	105	0			0.021 ^	0.10
Potatoes	210	0			0.021 ^	0.10
Spinach	678	0			0.015 - 0.021	NT
Strawberries	744	0			0.021 - 0.030	0.10
Sweet Corn, Fresh	668	0			0.021 - 0.050	0.1
Sweet Corn, Frozen	75	0			0.021 - 0.050	0.1
Sweet Potatoes	739	0			0.015 - 0.021	NT
Tomato Paste	742	<u>0</u>			0.15 ^	0.10
TOTAL	9,270	<u>2</u> 3			0.10	0.10
Pentachloroaniline - PCA (met	abolite of Quint	ozene)				
Apples	534	0			0.001 ^	NT
Cilantro (V-11)	184	11	6.0	0.002 - 0.075	0.001 ^	NT
Cucumbers (V-5)	534	5	0.9	0.002 ^	0.001 - 0.005	NT
Garbanzo Beans, Canned	135	0	-	-	0.002 ^	0.1
Green Onions (V-1)	558	1	0.2	0.002 ^	0.001 ^	NT
Kidney Beans, Canned	132	0			0.010 ^	0.1
Oranges	534	0			0.030 ^	NT
Pinto Beans, Canned	267	Ö			0.002 - 0.010	0.1
Potatoes	534	27	5.1	0.002 - 0.028	0.002 - 0.010	0.1
Spinach	534	0			0.030 - 0.060	NT
Sweet Potatoes	529	0			0.030 ^	NT
Tomato Paste	<u>742</u>	Ω			0.011 ^	0.1
TOTAL	5,217	44				
Pentachlorobenzene - PCB (me	etabolite of Qui	ntozene)				
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
	-	-	1.2			NT

anticida (Communa III	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
esticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Grapes	210	0			0.002 ^	NT
Green Onions	542	0			0.002 - 0.013	NT
Kidney Beans, Canned	186	0			0.002 ^	0.1
Oranges	722	_			0.002 - 0.005	NT
5		0				
Pinto Beans, Canned	372	0	4 -	0.000 0.004	0.002 ^	0.1
Potatoes	744	35	4.7	0.002 - 0.031	0.002 ^	0.1
Spinach	630	0			0.002 - 0.005	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	739	0			0.002 - 0.005	NT
Tomato Paste	742	<u>0</u>			0.010 ^	0.1
TOTAL	7,358	<u>⊻</u> 37			0.010	0.1
TOTAL	1,336	31				
Pentachlorophenyl methyl sulfi	•		e)			
Apples	534	0			0.001 ^	NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	534	0			0.001 ^	NT
Garbanzo Beans, Canned	135	0			0.001 ^	0.1
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	132	0			0.010 ^	0.1
Oranges	490	0			0.005 ^	NT
Pinto Beans, Canned	267	0			0.001 - 0.010	0.1
·		_	4.4	0.004 0.000		
Potatoes	534	22	4.1	0.001 - 0.030	0.001 - 0.010	0.1
Spinach	512	0			0.005 - 0.010	NT
Sweet Potatoes	<u>464</u>	<u>0</u>			0.005 ^	NT
TOTAL	4,344	22				
ermethrin Total (insecticide)						
Asparagus	534	0			0.050 ^	2.0
Oranges	534	0			0.10 ^	NT
Spinach	534	278	52.1	0.10 - 19	0.10 ^	20
Sweet Corn, Fresh		_	02.1	0.10 - 13		0.10
	467	0			0.050 ^	
Sweet Corn, Frozen	67	0			0.050 ^	0.10
Sweet Potatoes	<u>528</u>	<u>0</u>			0.10 ^	NT
TOTAL	2,664	278				
Permethrin cis (isomer of Perr	nethrin)					
Apples	744	1	0.1	0.004 ^	0.002 - 0.015	0.05
Asparagus	210	0			0.015 ^	2.0
Cilantro (V-6)	184	6	3.3	0.010 - 0.73	0.008 ^	NT
			1.6	0.004 - 0.037	0.002 - 0.015	1.5
Cucumbers	744	12	1.0	0.004 - 0.037		
Garbanzo Beans, Canned	186	0			0.012 - 0.015	NT
Grapes	744	0			0.006 - 0.015	NT
Green Onions (V-6)	558	6	1.1	0.004 - 0.028	0.002 - 0.016	NT
Kidney Beans, Canned	186	0			0.012 - 0.015	NT
Lettuce, Organic	387	0			0.050 ^	20
Oranges	210	0			0.015 ^	NT
Pears (X-1)	742	1	0.1	0.25 ^	0.024 ^	0.05
Pinto Beans, Canned	372		0.1	0.25	0.012 - 0.015	NT
•		0				
Potatoes	744	0			0.012 - 0.015	0.05
Spinach	210	106	50.5	0.025 - 6.0	0.015 ^	20
Strawberries	744	0			0.006 - 0.015	NT
Sweet Corn, Fresh	201	0			0.015 ^	0.10
Sweet Corn, Frozen	8	0			0.015 ^	0.10
Sweet Potatoes	210	0			0.015 ^	NT
Tomato Paste	742	<u>0</u>			0.040 ^	2.0
	8,126	132			0.070	2.0
TOTAL	0,120					
TOTAL Permethrin trans (isomer of Pe	ermethrin)				0.000 5.515	
	•	0			0.008 - 0.015 0.015 ^	0.05 2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Cilantro (V-6)	184	6	3.3	0.009 - 0.79	0.008 ^	NT
Cucumbers	744	3	0.4	0.009 - 0.79	0.008 ^	1.5
Garbanzo Beans, Canned	186	0	0.4	0.004 - 0.032	0.002 - 0.015	NT
•	744	0				NT
Grapes			0.0	0.000 0.050	0.006 - 0.015	
Green Onions (V-3)	542	3	0.6	0.009 - 0.053	0.008 - 0.016	NT
Kidney Beans, Canned	186	0			0.013 - 0.015	NT
Lettuce, Organic	387	0			0.050 ^	20
Oranges	210	0			0.015 ^	NT
Pears (X-1)	742	1	0.1	0.30 ^	0.024 ^	0.05
Pinto Beans, Canned	372	0			0.013 - 0.015	NT
Potatoes	744	0			0.013 - 0.015	0.05
Spinach	210	106	50.5	0.025 - 7.6	0.015 ^	20
Strawberries	744	0			0.006 - 0.018	NT
Sweet Corn, Fresh	185	0			0.015 ^	0.10
Sweet Corn, Frozen	6	0			0.015 ^	0.10
Sweet Potatoes	210	0			0.015 ^	NT
Tomato Paste	<u>742</u>	<u>0</u>			0.039 ^	2.0
TOTAL	8,092	119				
Phenmedipham (herbicide)						
Apples	210	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cucumbers	210	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	Ö			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	Ö			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	-			0.003 ^	4.0
Strawberries	210	0			0.003 ^	NT
	-	0				
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>2,309</b>	<u>0</u> <b>0</b>			0.003 ^	NT
Dhanathain (incontint da)						
Phenothrin (insecticide) Apples	744	•			0.002 - 0.016	NT
• •	744 744	0				NT
Asparagus		0			0.015 - 0.20	
Cucumbers	594	0			0.002 - 0.021	NT
Garbanzo Beans, Canned	186	0			0.015 - 0.025	NT
Grapes	744	0			0.015 - 0.035	NT
Green Onions	558	0			0.002 - 0.033	NT
Kidney Beans, Canned	186	0			0.015 - 0.025	NT
Lettuce, Organic	387	0			0.20 ^	NT
Oranges	744	0			0.015 - 0.075	NT
Pinto Beans, Canned	372	0			0.015 - 0.025	NT
Potatoes	744	0			0.015 - 0.025	NT
Spinach	744	0			0.015 - 0.38	NT
Strawberries	744	0			0.015 - 0.035	NT
Sweet Corn, Fresh	668	0			0.015 - 0.20	NT
Sweet Corn, Frozen	75	Ö			0.015 - 0.20	NT
Sweet Potatoes	738	<u>0</u>			0.015 - 0.075	NT
TOTAL	8,972	0			0.010 0.070	141
Phenthoate (insecticide)						
Apples	534	0			0.006 ^	NT
Cilantro	184	0			0.020 ^	NT
Cucumbers	534				0.020 ^	NT
Green Onions	558	0			0.006 ^	NT
		<u>Q</u>			0.000 ′	INI
TOTAL	1,810	0				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
•	Samples	Detections	Detections	Detected, ppin	ррш	Level, ppil
o-Phenylphenol (fungicide)	744	40	4.0	0.005 0.047	0.000 0.040	0.5
Apples	744	10	1.3	0.005 - 0.047	0.003 - 0.012	25
Cucumbers	744	19	2.6	0.005 - 2.8	0.003 - 0.012	10
Oranges	210	2	1.0	0.020 - 0.082	0.012 ^	10
Pears	742	192	25.9	0.017 - 10.6	0.010 ^	25.0
Spinach	446	0			0.015 ^	NT
Sweet Potatoes	210	0			0.012 ^	15
Tomato Paste	<u>742</u>	<u>2</u>	0.3	0.052 ^	0.031 ^	10
TOTAL	3,838	225				
Phorate (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	0.05
Cilantro	184				0.002 ^	NT
	-	0				
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.020	0.05
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.002 - 0.006	NT
Kidney Beans, Canned	186	0			0.002 - 0.020	0.05
Oranges	700	0			0.002 - 0.010	NT
Pinto Beans, Canned	372	0			0.002 - 0.020	0.05
Potatoes	744	0			0.002 - 0.020	0.2
Spinach	656	0			0.002 - 0.004	NT
Strawberries	210	-			0.002 ^	NT
	-	0				
Sweet Corn, Fresh	668	0			0.002 - 0.10	0.05
Sweet Corn, Frozen	75	0			0.002 - 0.10	0.05
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL	6,657	0				
Phorate oxygen analog (metal Apples Asparagus	744 210	0 0			0.001 - 0.002 0.002 ^	NT NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.010	0.05
Grapes	210				0.002 - 0.010	NT
•		0				
Green Onions	558	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	0.05
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.010	0.05
Potatoes	744	0			0.002 - 0.010	0.2
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.080	0.05
Sweet Corn, Frozen	75	0			0.002 - 0.080	0.05
Sweet Potatoes	210	<u>0</u>			0.002 ^	NT
TOTAL	5,721	0			0.002	111
	·					
Phorate sulfone (metabolite of Apples	f Phorate) 744	0			0.002 - 0.003	NT
• •	210	0			0.002 ^	NT
Asparagus						
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.010	0.05
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	0.05
Oranges	210	0			0.002 ^	NT
	372	0			0.002 - 0.010	0.05
5						
Pinto Beans, Canned			በ ደ	0 004 <b>-</b> 0 036	0 002 - 0 010	በኃ
Pinto Beans, Canned Potatoes	744	6	0.8	0.004 - 0.036	0.002 - 0.010	0.2 NT
Pinto Beans, Canned Potatoes Spinach	744 656	6 0	0.8	0.004 - 0.036	0.002 - 0.012	NT
Pinto Beans, Canned Potatoes	744	6	0.8	0.004 - 0.036		

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
	•		Detections	betected, ppin		
Sweet Corn, Frozen	75 210	0			0.002 - 0.080 0.002 ^	0.05 NT
Sweet Potatoes TOTAL	6,167	<u>0</u> <b>6</b>			0.002 ^	INI
Phorate sulfoxide (metabolite	of Phorate)					
Apples	744	0			0.006 - 0.009	NT
Asparagus	210	0			0.006 ^	NT
Cilantro	184	0			0.009 ^	NT
Cucumbers	744	0			0.006 - 0.009	NT
Garbanzo Beans, Canned	186	0			0.006 - 0.010	0.05
Grapes	210	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.006 - 0.010	0.05
Oranges	744	0			0.006 - 0.010	NT
Pinto Beans, Canned	372	0			0.006 - 0.010	0.05
Potatoes	744	10	1.3	0.010 - 0.080	0.006 - 0.010	0.2
Spinach	656	0			0.006 - 0.012	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	668	0			0.006 - 0.010	0.05
Sweet Corn, Frozen	75	0			0.006 - 0.010	0.05
Sweet Potatoes	<u>210</u>	<u>0</u>			0.006 ^	NT
TOTAL	6,143	10				
Phosalone (insecticide)						
Apples	744	0			0.002 - 0.003	10.0
Asparagus	210	0			0.003 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	722	0			0.003 - 0.052	10.0
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.050	NT
Pears	742	0			0.039 ^	10.0
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	744	0			0.003 - 0.052	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>716</u>	<u>0</u>			0.003 - 0.050	NT
TOTAL	6,947	0				
Phosmet (insecticide)						
Apples	744	104	14.0	0.005 - 1.2	0.003 - 0.005	10
Asparagus	744	0			0.003 - 0.013	NT
Cilantro	184	0			0.005 ^	NT
Cucumbers	744	0			0.003 - 0.005	NT
Garbanzo Beans, Canned	186	0	0.0	0.005 0.50	0.003 - 0.010	NT
Grapes	744	17	2.3	0.005 - 0.53	0.003 - 0.050	10
Green Onions	558	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.010	NT
Lettuce, Organic	387	0			0.013 ^	NT
Oranges	700	0	- <del>-</del>	0.000	0.003 - 0.025	5
Pears	742	72	9.7	0.008 - 1.3	0.005 ^	10
Pinto Beans, Canned	372	0			0.003 - 0.010	NT
Potatoes	744	0			0.003 - 0.010	0.1
Spinach	656	0			0.003 - 0.008	NT
Strawberries	744	0			0.003 - 0.050	NT
	668	0			0.003 - 0.013	NT
Sweet Corn, Fresh						—
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	75 <u>716</u>	0 <u>1</u>	0.1	0.18 ^	0.003 - 0.013 0.003 - 0.025	NT 10

Destinate (O. 19	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppn
Phosmet oxygen analog (metabo	olite of Phosm	,				
Asparagus	534	0			0.010 ^	NT
Lettuce, Organic (V-3)	387	3	8.0	0.17 - 0.22	0.053 ^	NT
Sweet Corn, Fresh	467	0			0.010 ^	NT
Sweet Corn, Frozen	<u>67</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,455	3				
Phosphamidon (insecticide)						
Apples	744	0			0.003 - 0.006	1.0
Asparagus	210	0			0.006 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Garbanzo Beans, Canned	51	0			0.006 ^	NT
Grapes	210	Ö			0.006 ^	NT
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.006 ^	NT
Oranges	744	0			0.006 - 0.010	NT
Pinto Beans, Canned	105	0			0.006 ^	NT
•						
Potatoes	210	0			0.006 ^	NT
Spinach	656	0			0.006 - 0.015	NT
Strawberries	210	0			0.006 ^	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>210</u>	<u>Q</u>			0.006 ^	NT
TOTAL	5,099	0				
Piperonyl butoxide (insecticide)						
Apples	729	1	0.1	0.031 ^	0.005 - 0.009	8
Asparagus	744	0			0.009 - 0.025	10
Cilantro	168	0			0.005 ^	10
Cucumbers	744	0			0.005 - 0.009	10
Garbanzo Beans, Canned	186	1	0.5	0.038 ^	0.009 - 0.023	8
Grapes	744	0	0.0	0.000	0.009 - 0.033	8
Green Onions	558	4	0.7	0.008 ^	0.005 ^	10
Kidney Beans, Canned	186		0.7	0.000	0.009 - 0.023	8
	744	0				8
Oranges		0			0.009 - 0.015	
Pears	742	0			0.043 ^	8
Pinto Beans, Canned	372	0			0.009 - 0.023	8
Potatoes	744	0			0.009 - 0.023	0.25
Spinach	744	0			0.009 - 0.030	10
Strawberries	744	16	2.2	0.015 - 0.74	0.009 - 0.033	10
Sweet Corn, Fresh	668	0			0.009 - 0.025	20
Sweet Corn, Frozen	75	0			0.009 - 0.025	20
Sweet Potatoes	738	17	2.3	0.015 - 0.087	0.009 - 0.015	0.25
Tomato Paste	<u>742</u>	<u>Q</u>			0.14 ^	8
TOTAL	10,372	39				
Pirimicarb (insecticide)						
Apples	534	0			0.010 ^	NT
Cilantro	184	0			0.010 ^	NT
Cucumbers	534	0			0.010 ^	NT
Green Onions	558	0			0.010 ^	NT
					0.010 ^	
Oranges	534	0				NT
Spinach	534	0			0.005 ^	NT
Sweet Potatoes TOTAL	<u>529</u> <b>3,407</b>	<u>0</u> <b>0</b>			0.005 ^	NT
	, -	-				
Pirimiphos methyl (insecticide)	711	2			0.002.4	NIT
Apples	744	0			0.002 ^	NT
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers Garbanzo Beans, Canned	744 51	0 0			0.002 ^ 0.002 ^	NT NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Grapes	210	0		· • • • • • • • • • • • • • • • • • • •	0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	Ö			0.002 ^	NT
Oranges	744	0			0.002 - 0.013	NT
Pinto Beans, Canned	105	Ö			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	656	0			0.002 - 0.004	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.020	NT
Sweet Corn, Frozen	75	-			0.002 - 0.020	NT
Sweet Com, Flozen Sweet Potatoes	-	0				NT
	739	<u>0</u>			0.002 - 0.013	INI
TOTAL	6,162	0				
Prallethrin (insecticide)						
Apples	210	0			0.009 ^	1.0
Asparagus	744	0			0.009 - 0.033	1.0
Cucumbers	210	0			0.009 ^	1.0
Garbanzo Beans, Canned	186	0			0.002 - 0.009	1.0
Grapes	744	0			0.009 - 0.050	1.0
Kidney Beans, Canned	186	0			0.002 - 0.009	1.0
Lettuce, Organic	387	0			0.13 ^	1.0
Oranges	744	0			0.009 - 0.010	1.0
Pears	742	0			0.11 ^	1.0
Pinto Beans, Canned	372	0			0.002 - 0.009	1.0
Potatoes	744	Ö			0.002 - 0.009	1.0
Spinach	744	0			0.009 - 0.010	1.0
Strawberries	744	0			0.009 - 0.050	1.0
Sweet Corn, Fresh	668	0			0.009 - 0.033	1.0
Sweet Corn, Frozen	75	0			0.009 - 0.033	1.0
Sweet Potatoes	739	0			0.009 - 0.010	1.0
Tomato Paste	742	-			0.36 ^	1.0
TOTAL	8,981	<u>0</u> <b>0</b>			0.50	1.0
December (for what do)						
Procymidone (fungicide)	534	2	0.4	0.14 - 0.18	0.019 ^	5.0
Grapes Strawberries			0.4	0.14 - 0.16	0.019 ^	NT
	<u>534</u>	0			0.019 ^	INI
TOTAL	1,068	2				
Profenofos (insecticide)						
Apples	534	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers (V-2)	534	2	0.4	0.003 - 0.008	0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Oranges	490	0			0.010 ^	NT
Spinach	<u>446</u>	<u>O</u>			0.011 ^	NT
TOTAL	2,746	2				
Prometryn (herbicide)						
Apples	744	0			0.007 - 0.009	NT
Asparagus	210	0			0.015 ^	NT
Cilantro	184	13	7.1	0.011 - 0.19	0.007 ^	3.5
Cucumbers	744	0			0.007 - 0.009	NT
Garbanzo Beans, Canned	51	0			0.009 ^	NT
Grapes	210	Ö			0.009 ^	NT
Green Onions	558	0			0.007 ^	NT
Kidney Beans, Canned	54	0			0.007	NT
Oranges	210	0			0.009 ^	NT
Pinto Beans, Canned	105	0			0.009 ^	NT
	210					NT
Potatoes		0			0.009 - 0.020	
Spinach	210	0			0.015 ^	NT
Strawberries	210	0			0.009 ^	NT
Sweet Corn, Fresh	201	0			0.009 - 0.020	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	8		Detections	Deteoted, ppin	0.009 ^	NT
Sweet Corn, Frozen Sweet Potatoes	210	0 <u>0</u>			0.009 ^	NT
TOTAL	4,119	13			0.009	INI
Pronamide (herbicide)						
Apples	744	0			0.006 - 0.008	0.1
Asparagus	210	0			0.008 ^	NT
Cilantro (V-1)	184	1	0.5	0.024 ^	0.006 ^	NT
Cucumbers	744	0			0.006 - 0.008	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.008	NT
Grapes	744	0			0.008 - 0.015	0.1
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.008	NT
Oranges	744	0			0.008 - 0.025	NT
Pears	742	0			0.014 ^	0.1
Pinto Beans, Canned	372	0			0.001 - 0.008	NT
Potatoes	744	0			0.001 - 0.008	NT
Spinach	210	0			0.008 ^	NT
Strawberries	744	0			0.008 - 0.015	NT
Sweet Corn, Fresh	201	0			0.008 ^	NT
Sweet Corn, Frozen	8	-			0.008 ^	NT
Sweet Potatoes	_	0				NT
TOTAL	<u>739</u> <b>8,060</b>	<u>0</u> 1			0.008 - 0.025	INI
Pronomogarh hydrochlorida (fu	ıngioido)					
Propamocarb hydrochloride (fu		0			0.010.4	NIT
Oranges	534	0			0.010 ^	NT
Spinach	88	0			0.010 ^	NT
Sweet Potatoes TOTAL	<u>529</u> 1,1 <b>5</b> 1	<u>0</u> <b>0</b>			0.010 ^	NT
Propargite (insecticide) Apples (V-4)	744	4	0.5	0.005 - 0.044	0.003 - 0.088	NT
Asparagus	210	0			0.003 ^	NT
Cilantro	168	0			0.088 ^	NT
Cucumbers	744	0			0.003 - 0.18	NT
Garbanzo Beans, Canned	186	0			0.003 - 0.045	NT
Grapes	744	0			0.003 - 0.090	10.0
Green Onions	558	0			0.026 - 0.088	NT
Kidney Beans, Canned	186	0			0.003 - 0.045	NT
Oranges	210	0			0.003 ^	10.0
Pinto Beans, Canned	372	0			0.003 - 0.045	NT
Potatoes	744	0			0.003 - 0.045	0.1
Spinach	210	0			0.003 ^	NT
Strawberries	744	0			0.003 - 0.090	NT
Sweet Corn, Fresh	668	0			0.003 - 0.080	0.1
Sweet Corn, Frozen	75	0			0.003 - 0.080	0.1
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,773	4				
Propetamphos (insecticide)					0.002 ^	0.1
Propetamphos (insecticide) Apples	744	0			0.002	
	744 744	0 0			0.002 - 0.16	0.1
Apples						0.1 0.1
Apples Asparagus	744	0 0			0.002 - 0.16	0.1
Apples Asparagus Cilantro Cucumbers	744 184	0			0.002 - 0.16 0.002 ^	
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned	744 184 744 186	0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010	0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes	744 184 744 186 744	0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^	0.1 0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes Green Onions	744 184 744 186 744 558	0 0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^ 0.002 ^	0.1 0.1 0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned	744 184 744 186 744 558 186	0 0 0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^ 0.002 ^ 0.002 - 0.010	0.1 0.1 0.1 0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges	744 184 744 186 744 558 186 700	0 0 0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 - 0.010	0.1 0.1 0.1 0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges Pears	744 184 744 186 744 558 186 700 742	0 0 0 0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 - 0.010 0.004 ^	0.1 0.1 0.1 0.1 0.1 0.1 0.1
Apples Asparagus Cilantro Cucumbers Garbanzo Beans, Canned Grapes Green Onions Kidney Beans, Canned Oranges	744 184 744 186 744 558 186 700	0 0 0 0 0 0			0.002 - 0.16 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 ^ 0.002 ^ 0.002 - 0.010 0.002 - 0.010	0.1 0.1 0.1 0.1 0.1 0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Strawberries	744	0			0.002 ^	0.1
	668				0.002	0.1
Sweet Corn, Fresh		0				
Sweet Corn, Frozen	75	0			0.002 - 0.040	0.1
Sweet Potatoes	210	0			0.002 ^	0.1
Tomato Paste	<u>742</u>	<u>O</u>			0.013 ^	0.1
TOTAL	9,831	0				
Propham (herbicide)						
Apples	210	0			0.015 ^	NT
Asparagus	210	0			0.015 ^	NT
Cucumbers	210	0			0.015 ^	NT
Garbanzo Beans, Canned	51	0			0.015 - 0.030	NT
Grapes	210	0			0.015 ^	NT
Kidney Beans, Canned	54	0			0.015 ^	NT
Oranges	210	0			0.021 ^	NT
Pinto Beans, Canned	105	0			0.015 ^	NT
Potatoes	210	0			0.015 - 0.030	NT
Spinach	210	0			0.015 ^	NT
·						
Strawberries	210	0			0.015 ^	NT
Sweet Corn, Fresh	201	0			0.015 ^	NT
Sweet Corn, Frozen	8	0			0.015 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.015 ^	NT
TOTAL	2,309	0				
Propiconazole (fungicide)						
Apples	534	0			0.008 ^	NT
Cilantro	184	0			0.008 ^	13
Cucumbers	534	0			0.008 ^	NT
Grapes	534	0			0.003 ^	1.0
Green Onions	558	0			0.008 ^	9.0
Kidney Beans, Canned	132	0			0.035 ^	NT
Oranges	534	0			0.010 ^	NT
Pinto Beans, Canned	44	0			0.035 ^	NT
Potatoes	132				0.035 ^	NT
	88	0				NT
Spinach		0	40.0	0.004 0.47	0.010 ^	
Strawberries	534	55	10.3	0.004 - 0.47	0.003 ^	1.3
Sweet Corn, Fresh	467	0			0.080 ^	0.1
Sweet Corn, Frozen	67	0			0.080 ^	0.1
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	4,871	55				
Propiconazole I (isomer of Pr	opiconazole)					
Apples	210	0			0.030 ^	NT
Asparagus	210	0			0.030 ^	NT
Cucumbers	210	0			0.030 ^	NT
Garbanzo Beans, Canned	51	0			0.030 ^	NT
Grapes	210	0			0.030 ^	1.0
Kidney Beans, Canned	54	0			0.030 ^	NT
Oranges	210	0			0.030 ^	NT
-	105				0.030 ^	NT
Pinto Beans, Canned Potatoes		0				
	210	0			0.030 ^	NT
Spinach	210	0			0.030 ^	NT
Strawberries	210	3	1.4	0.050 ^	0.030 ^	1.3
Sweet Corn, Fresh	201	0			0.030 - 0.060	0.1
Sweet Corn, Frozen	8	0			0.030 ^	0.1
Sweet Potatoes	<u>210</u>	Ω			0.030 ^	NT
TOTAL	2,309	3				
Propiconazole II (isomer of Pr	opiconazole)					
Apples	210	0			0.030 ^	NT
Asparagus	210	0			0.030 ^	NT
Cucumbers	210	0			0.030 ^	NT
Odcambers						

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance
•	•		Detections	Detected, ppm	ppm	Level, ppm
Grapes	210	0			0.030 ^	1.0
Kidney Beans, Canned	54	0			0.030 ^	NT
Oranges	210	0			0.030 ^	NT
Pinto Beans, Canned	105	0			0.030 ^	NT
Potatoes	210	0			0.030 ^	NT
Spinach	210	0			0.030 ^	NT
Strawberries	210	5	2.4	0.050 - 0.10	0.030 ^	1.3
Sweet Corn, Fresh	201	0			0.030 - 0.060	0.1
Sweet Corn, Frozen	8	0			0.030 ^	0.1
Sweet Potatoes	<u>210</u>	Q			0.030 ^	NT
TOTAL	2,309	5				
Pymetrozine (insecticide)						
Cilantro	184	0			0.005 ^	NT
Cucumbers	534	2	0.4	0.008 - 0.038	0.005 ^	0.1
Green Onions	526	0	0	0.000	0.005 ^	NT
Spinach	446	1	0.2	0.015 ^	0.010 ^	0.6
Sweet Potatoes	<u>529</u>		0.2	0.010	0.010 ^	0.02
TOTAL	<u>329</u> <b>2,219</b>	<u>0</u> <b>3</b>			0.010	0.02
	•					
Pyraclostrobin (fungicide)	711	440	40.0	0.000 0.44	0.004 0.004	4.5
Apples	744	119	16.0	0.002 - 0.11	0.001 - 0.004	1.5
Asparagus	210	0			0.002 ^	NT
Cilantro (V-7)	184	7	3.8	0.002 - 0.091	0.001 - 0.004	NT
Cucumbers	744	36	4.8	0.002 - 0.018	0.001 - 0.004	0.5
Garbanzo Beans, Canned	186	0			0.002 - 0.003	0.5
Grapes	744	337	45.3	0.001 - 0.51	0.001 - 0.002	2.0
Green Onions	480	1	0.2	0.006 ^	0.004 - 0.018	0.9
Kidney Beans, Canned	186	0			0.002 - 0.003	0.5
Oranges	744	1	0.1	0.003 ^	0.002 - 0.003	2.0
Pears	742	13	1.8	0.025 - 0.12	0.015 ^	1.5
Pinto Beans, Canned	372	0	1.0	0.020 0.12	0.002 - 0.003	0.5
Potatoes	744	0			0.002 - 0.003	0.04
Spinach	744	70	9.4	0.003 - 2.9	0.002 - 0.003	29.0
•	744	324	43.5	0.003 - 2.9		1.2
Strawberries		_	43.3	0.001 - 0.01	0.001 - 0.002	
Sweet Corn, Fresh	668	0			0.002 - 0.040	0.04
Sweet Corn, Frozen	75	0			0.002 - 0.040	0.04
Sweet Potatoes	739	0			0.002 - 0.003	0.04
Tomato Paste	<u>742</u>	<u>0</u>			0.049 ^	1.4
TOTAL	9,792	908				
Pyrethrins (insecticide)						
Grapes	534	0			0.099 ^	1.0
Strawberries	<u>534</u>	<u>0</u>			0.099 ^	1.0
TOTAL	1,068	0				
Pyrethrum (natural pyrethrins)	(insecticide)					
Lettuce, Organic	387	<u>0</u>			0.13 ^	1.0
TOTAL	387	Ō			-	-
Pyridaben (insecticide, acarici	de)					
Apples	210	1	0.5	0.025 ^	0.015 ^	0.5
Asparagus	210	0			0.015 ^	NT
Cucumbers	210	0			0.015 ^	NT
Garbanzo Beans, Canned	51	0			0.015 ^	NT
Grapes	722	1	0.1	0.18 ^	0.001 - 0.015	1.5
•	186	0	0.1	0.10		NT
Kidney Beans, Canned					0.015 - 0.021	
Oranges	744	0	0.4	0.070 4	0.013 - 0.030	0.5
Pears	742	3	0.4	0.070 ^	0.042 ^	0.75
Pinto Beans, Canned	149	0			0.015 - 0.021	NT
Detetees	342	0			0.015 - 0.021	NT
Potatoes Spinach	210	O			0.015 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
Strawberries		0		/11	0.001 - 0.015	2.5
Sweet Corn, Fresh	185	0			0.001 - 0.013	NT
Sweet Corn, Frozen	6	0			0.015 - 0.050	NT
Sweet Com, 1102em	738	0			0.013 - 0.030	NT
Tomato Paste	730 742	<u>0</u>			0.013 - 0.013	0.15
TOTAL	6,191	<u>5</u>			0.11	0.15
Pyrimethanil (fungicide)						
Apples	744	427	57.4	0.002 - 6.0	0.001 - 0.003	14
Asparagus	210	0		5.55= 5.5	0.003 ^	NT
Cilantro (V-15)	184	15	8.2	0.002 - 0.008	0.001 ^	NT
Cucumbers (V-25)	744	25	3.4	0.002 - 0.066	0.001 - 0.003	NT
Garbanzo Beans, Canned	51	0	0.4	0.002 0.000	0.003 ^	NT
Grapes	744	98	13.2	0.001 - 1.7	0.003	5.0
Green Onions	558	1	0.2	0.001 - 1.7	0.001 - 0.003	2.0
Kidney Beans, Canned	54		0.2	0.003		NT
	_	0	0.0	0.000 0.007	0.003 ^	
Oranges	744	6	0.8	0.003 - 0.037	0.003 ^	10
Pears	742	247	33.3	0.082 - 6.5	0.049 ^	14
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	0.05
Spinach	744	0			0.003 ^	NT
Strawberries (X-2)	744	274	36.8	0.001 - 5.7	0.001 - 0.003	3.0
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	739	0			0.003 ^	0.05
Tomato Paste	<u>742</u>	<u>0</u>			0.16 ^	0.50
TOTAL	8,268	1,093				
Pyriproxyfen (insecticide, grow	vth regulator)					
Apples	744	0			0.013 - 0.015	0.2
Asparagus	744	0			0.015 ^	0.10
Cilantro	184	0			0.013 ^	0.10
Cucumbers	744	0			0.013 - 0.015	0.10
Garbanzo Beans, Canned	186	0			0.001 - 0.015	0.10
Grapes	744	0			0.001 - 0.015	2.5
	558	0				0.70
Green Onions		_			0.013 ^	
Kidney Beans, Canned	186	0			0.015 - 0.016	0.20
Oranges	744	0			0.015 - 0.018	0.3
Pears	742	0			0.042 ^	0.2
Pinto Beans, Canned	372	0			0.001 - 0.016	0.20
Potatoes	744	0			0.001 - 0.016	0.15
Spinach	210	0			0.015 ^	0.10
Strawberries	744	7	0.9	0.001 - 0.077	0.001 - 0.015	0.30
					0.045 0.060	4.4
Sweet Corn, Fresh	668	0			0.015 - 0.060	1.1
	668 75	0 0			0.015 - 0.060	1.1
Sweet Corn, Fresh						
Sweet Corn, Fresh Sweet Corn, Frozen	75	0 0			0.015 ^	1.1
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	75 738	0			0.015 ^ 0.015 ^	1.1 0.15
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL	75 738 <u>742</u>	0 0 <u>0</u>			0.015 ^ 0.015 ^	1.1 0.15
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide)	75 738 <u>742</u> <b>9,869</b>	0 0 <u>0</u> <b>7</b>			0.015 ^ 0.015 ^ 0.14 ^	1.1 0.15 0.2
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples	75 738 <u>742</u> <b>9,869</b> 729	0 0 <u>0</u> <b>7</b>			0.015 ^ 0.015 ^ 0.14 ^	1.1 0.15 0.2 NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus	75 738 <u>742</u> <b>9,869</b> 729 210	0 0 <u>0</u> <b>7</b> 0 0			0.015 ^ 0.015 ^ 0.14 ^ 0.002 - 0.008 0.002 ^	1.1 0.15 0.2 NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro	75 738 742 <b>9,869</b> 729 210 184	0 0 <u>0</u> <b>7</b> 0 0	0.0	0.002 0.004	0.015 ^ 0.015 ^ 0.14 ^ 0.002 - 0.008 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6)	75 738 742 <b>9,869</b> 729 210 184 744	0 0 <u>0</u> <b>7</b> 0 0 0	0.8	0.003 - 0.004	0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 - 0.008	1.1 0.15 0.2 NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned	75 738 742 <b>9,869</b> 729 210 184 744 51	0 0 7 7			0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 - 0.008 0.002 ^	1.1 0.15 0.2 NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes	75 738 742 <b>9,869</b> 729 210 184 744 51 210	0 0 0 7 7 0 0 0 6 0 58	0.8 27.6	0.003 - 0.004 0.003 - 0.11	0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 - 0.008 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54	0 0 0 7 7 0 0 0 6 0 58			0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT O.60 NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54	0 0 0 7 7 0 0 0 6 0 58			0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT 0.60 NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54	0 0 0 7 7 0 0 0 6 0 58			0.015 ^ 0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT O.60 NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54	0 0 0 7 7 0 0 0 0 6 0 58 0			0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54 744 105	0 0 0 7 7 0 0 0 6 0 58 0 0			0.015 ^ 0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT NT NT NT NT NT
Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes Tomato Paste TOTAL  Quinoxyfen (fungicide) Apples Asparagus Cilantro Cucumbers (V-6) Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes	75 738 742 <b>9,869</b> 729 210 184 744 51 210 54 744 105 210	0 0 0 7 0 0 0 6 0 58 0 0			0.015 ^ 0.015 ^ 0.015 ^ 0.14 ^  0.002 - 0.008 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 ^ 0.002 - 0.002 ^	1.1 0.15 0.2 NT NT NT NT NT 0.60 NT NT NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppn
•	•		Detections	Detected, ppm	ppm	
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes TOTAL	<u>739</u> <b>4,697</b>	<u>0</u> <b>93</b>			0.002 - 0.010	NT
Ouinterana DCND (funciaida)		D DCA and D	CD)			
Quintozene - PCNB (fungicide) Apples	(parent of HCI	B, PCA and PC	CB)		0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cilantro (V-4)	184	4	2.2	0.005 - 0.30	0.003 ^	NT
Cucumbers	729	0	2.2	0.003 - 0.30	0.003 ^	NT
Garbanzo Beans, Canned	186	-			0.003	0.1
·	744	0			0.002 - 0.003	NT
Grapes	186	0				
Kidney Beans, Canned		0			0.002 - 0.003	0.1
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.003	0.1
Potatoes	744	10	1.3	0.002 - 0.016	0.002 - 0.003	0.1
Spinach (V-1)	656	1	0.2	0.014 ^	0.003 - 0.005	NT
Strawberries	744	0			0.003 - 0.021	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	717	0			0.003 - 0.005	NT
Tomato Paste	742	-			0.013 ^	0.1
TOTAL	7,377	<u>0</u> 15			0.013	0.1
TOTAL	7,377	15				
Resmethrin (insecticide)						
Grapes	445	0			0.070 ^	3.0
Lettuce, Organic	387	0			0.20 ^	3.0
Oranges	534	0			0.030 - 0.15	3.0
Spinach	490	0			0.030 - 0.15	3.0
Strawberries	534	0			0.070 ^	3.0
Sweet Corn, Fresh	467	0			0.030 ^	3.0
Sweet Corn, Frozen	67	0			0.030 ^	3.0
Sweet Potatoes	528	0			0.030 - 0.15	3.0
Tomato Paste	<u>742</u>	<u>0</u>			0.11 ^	3.0
TOTAL	4,194	0			0.11	3.0
Resmethrin-c (isomer of Resmo	ethrin) 354	0			0.008 ^	3.0
		0				
Cucumbers	534	0			0.002 - 0.016	3.0
Garbanzo Beans, Canned	135	0			0.025 ^	3.0
Green Onions	558	0			0.002 - 0.008	3.0
Kidney Beans, Canned	132	0			0.025 ^	3.0
Pinto Beans, Canned	267	0			0.025 ^	3.0
Potatoes	<u>534</u>	<u>0</u>			0.025 ^	3.0
TOTAL	2,514	0				
Resmethrin-t (isomer of Resme	thrin)					
Apples	385	0			0.008 ^	3.0
Asparagus	210	0			0.030 ^	3.0
Cilantro	168				0.008 - 0.016	3.0
		0				
Cucumbers	534	0			0.002 - 0.016	3.0
Garbanzo Beans, Canned	186	0			0.025 - 0.030	3.0
Green Onions	558	0			0.002 - 0.008	3.0
Kidney Beans, Canned	186	0			0.025 - 0.030	3.0
Oranges	210	0			0.030 ^	3.0
Pinto Beans, Canned	372	0			0.025 - 0.030	3.0
Potatoes	744	0			0.025 - 0.030	3.0
Sweet Corn, Fresh	201	0			0.030 ^	3.0
		U				
*	8	Λ			0.030 ^	3.0
Sweet Corn, Frozen Sweet Potatoes	8 <u>174</u>	0 <u>0</u>			0.030 ^ 0.030 ^	3.0 3.0

Destinide / Commercially	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Rotenone (insecticide)						
Lettuce, Organic	<u>387</u>	<u>0</u>			0.010 ^	NT
TOTAL	387	0				
Salannin (insecticide)						
Lettuce, Organic	<u>387</u>	Ω			0.050 ^	NT
TOTAL	387	0				
Sethoxydim (herbicide)						
Cucumbers	18	0			0.003 ^	4.0
Grapes	534	0			0.007 ^	1.0
Strawberries	<u>534</u>	<u>0</u>			0.007 - 0.013	10
TOTAL	1,086	0				
Simazine (herbicide)						
Apples	744	0			0.002 - 0.003	0.20
Asparagus	744	Ö			0.003 - 0.030	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	0			0.003 - 0.005	0.20
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002	NT
Oranges	210	2	1.0	0.005 ^	0.003 ^	0.25
Pears	742	0	1.0	0.003	0.022 - 0.023	0.25
Pinto Beans, Canned	105	0			0.003 ^	NT
•		-				
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	744	0			0.003 - 0.005	0.25
Sweet Corn, Fresh	668	0			0.003 - 0.030	0.25
Sweet Corn, Frozen	75	0			0.003 - 0.030	0.25
Sweet Potatoes	<u>210</u>	Ω			0.003 ^	NT
TOTAL	6,813	2				
Spinetoram (insecticide)						
Apples	519	18	3.5	0.002 - 0.008	0.001 ^	0.20
Cilantro	184	2	1.1	0.021 - 0.029	0.006 ^	3.0
Cucumbers	534	2	0.4	0.002 - 0.017	0.001 ^	0.30
Green Onions	542	27	5.0	0.002 - 0.019	0.001 ^	2.0
Pears	742	<u>30</u>	4.0	0.025 - 0.064	0.015 ^	0.20
TOTAL	2,521	79				5.25
Spinosad (insecticide) (total o	of spinosyns A a	and D)				
Apples	534	1	0.2	0.002 ^	0.001 ^	0.20
Cilantro	184	2	1.1	0.016 - 0.030	0.003 ^	8.0
Cucumbers	534	5	0.9	0.002 - 0.031	0.001 ^	0.3
Green Onions	542	62	11.4	0.002 - 0.037	0.001 ^	2.0
Lettuce, Organic	387	71	18.3	0.002 - 0.40	0.002 ^	8.0
Pears	<u>742</u>		10.0	0.002 0.40	0.015 ^	0.20
TOTAL	2,923	<u>0</u> 141			0.013	0.20
Spinosad A (isomer of Spinos	ad\					
Apples	210	4	1.9	0.003 - 0.006	0.002 ^	0.20
Apples Asparagus	210	0	1.5	0.003 - 0.000	0.002 ^	0.20
Cucumbers	210	1	0.5	0.014 ^	0.002 ^	0.2
Garbanzo Beans, Canned	210 51	0	0.5	0.014 ^	0.002 ^	0.3
· · · · · · · · · · · · · · · · · · ·	744	43	5.8	0.001 - 0.041	0.002 ^	0.02
Grapes Kidnov Boons, Connod			5.0	0.001 - 0.041		
Kidney Beans, Canned	54	0			0.002 ^	0.02
Oranges	722	0			0.002 ^	0.3
Pinto Beans, Canned	105	0			0.002 ^	0.02
Potatoes	210	0	a= -		0.002 ^	0.10
Spinach	744	264	35.5	0.002 - 1.1	0.002 ^	8.0
Strawberries	744	84	11.3	0.001 - 0.20	0.001 - 0.002	1.0
Sweet Corn, Fresh	201	0			0.002 ^	0.02

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
			Detections	Detected, ppin		
Sweet Corn, Frozen Sweet Potatoes	8 <u>739</u>	0			0.002 ^ 0.002 ^	0.02 0.10
TOTAL	4,952	<u>0</u> <b>396</b>			0.002 ^	0.10
Spinosad D (isomer of Spinos	ad)					
Apples	210	0			0.002 ^	0.20
Asparagus	210	0			0.002 ^	0.2
Cucumbers	210	0			0.002 ^	0.3
Garbanzo Beans, Canned	51	0			0.002 ^	0.02
Grapes	744	23	3.1	0.001 - 0.013	0.001 - 0.002	0.50
Kidney Beans, Canned	54	0			0.002 ^	0.02
Oranges	744	0			0.002 ^	0.3
Pinto Beans, Canned	105	0			0.002 ^	0.02
Potatoes	210	0	05.0	0.000 0.00	0.002 ^	0.10
Spinach	744	188	25.3	0.002 - 0.28	0.002 ^	8.0
Strawberries	744	50	6.7	0.001 - 0.040	0.001 - 0.002	1.0
Sweet Corn, Fresh Sweet Corn, Frozen	201 8	0			0.002 ^ 0.002 ^	0.02 0.02
Sweet Com, Frozen Sweet Potatoes		0			0.002 ^	
	<u>739</u>	<u>0</u>			0.002 ^	0.10
TOTAL	4,974	261				
Spirodiclofen (acaricide)						
Grapes	422	3	0.7	0.021 - 0.070	0.012 ^	2.0
Oranges	534	0	0.0	0.000 0.45	0.010 ^	0.50
Pears	742	17	2.3	0.036 - 0.15	0.022 ^	0.80
Strawberries	<u>422</u>	<u>Q</u>			0.012 ^	NT
TOTAL	2,120	20				
Spiromesifen Total (parent + er	nol metabolite)	(insecticide)				
Apples	534	0			0.006 ^	NT
Cilantro	184	0			0.006 - 0.040	NT
	534					
Cucumbers		0			0.006 - 0.020	0.10
Green Onions	512	0 Ω			0.006 - 0.020 0.020 - 0.040	0.10 NT
Green Onions TOTAL	<u>512</u>	Ω				
Green Onions TOTAL	<u>512</u>	Ω				
Green Onions TOTAL Spiromesifen (insecticide)	<u>512</u> <b>1,764</b>	Ω <b>0</b>			0.020 - 0.040 0.003 ^ 0.003 ^	NT
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers	<u>512</u> <b>1,764</b> 210	Ω <b>0</b>	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned	512 1,764 210 210 210 51	0 0 0 1	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes	512 1,764 210 210 210 51 210	0 0 0 1 0 0	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned	512 1,764 210 210 210 51 210 54	0 0 0 0 1 0 0	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT 0.10 0.10 NT 0.10
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges	512 1,764 210 210 210 51 210 54 744	0 0 0 0 1 0 0 0	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned	512 1,764 210 210 210 51 210 54 744 105	0 0 0 1 0 0 0 0	0.5	0.026 ^	0.020 - 0.040 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes	512 1,764 210 210 210 51 210 54 744 105 210	0 0 0 1 0 0 0 0			0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach	512 1,764 210 210 210 51 210 54 744 105 210 700	0 0 0 1 0 0 0 0 0 0	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries	512 1,764 210 210 210 51 210 54 744 105 210 700 210	0 0 0 1 0 0 0 0 0 0 0 0 3 27			0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201	0 0 0 1 0 0 0 0 0 0 0 3 27	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 2.00 12
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8	0 0 0 1 0 0 0 0 0 0 0 0 3 27 0	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8 739	0 0 0 1 0 0 0 0 0 0 0 0 3 27 0 0	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8	0 0 0 1 0 0 0 0 0 0 0 0 3 27 0	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide)	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862	0 0 0 1 0 0 0 0 0 0 0 3 27 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 0.02 12 2.0 0.02 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8 739	0 0 0 1 0 0 0 0 0 0 0 0 3 27 0 0	0.4	0.005 - 0.37	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide) Pears TOTAL	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 NT 0.10 0.02 12 2.0 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide) Pears TOTAL  Sulfentrazone (herbicide)	512 1,764 210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^	NT NT NT 0.10 0.10 NT 0.10 0.02 12 2.0 0.02 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide) Pears TOTAL  Sulfentrazone (herbicide) Apples	512 1,764  210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.005 ^ 0.005 ^	NT NT NT 0.10 0.10 NT 0.10 0.02 12 2.0 0.02 0.02 0.02
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide) Pears TOTAL  Sulfentrazone (herbicide) Apples Asparagus	512 1,764  210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862  742 742 742	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.002 - 0.003 0.003 ^ 0.003 ^ 0.003 ^ 0.005 ^ 0.005 ^ 0.006 ^ 0.006 ^	NT NT NT 0.10 0.10 NT 0.10 0.02 12 2.0 0.02 0.02 0.02 0.70
Green Onions TOTAL  Spiromesifen (insecticide) Apples Asparagus Cucumbers Garbanzo Beans, Canned Grapes Kidney Beans, Canned Oranges Pinto Beans, Canned Potatoes Spinach Strawberries Sweet Corn, Fresh Sweet Corn, Frozen Sweet Potatoes TOTAL  Spirotetramat (insecticide) Pears TOTAL  Sulfentrazone (herbicide) Apples	512 1,764  210 210 210 51 210 54 744 105 210 700 210 201 8 739 3,862	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 12.9	0.005 - 0.37 0.005 - 0.21	0.020 - 0.040  0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.003 ^ 0.005 ^ 0.005 ^	NT NT NT 0.10 0.10 NT 0.10 0.02 12 2.0 0.02 0.02 0.02

Posticido / Commoditu	Number of	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples		Detections	Detected, ppm	ppm	Level, ppm
Kidney Beans, Canned	54	0			0.006 ^	0.1
Oranges	210	0			0.006 ^	NT
Pinto Beans, Canned	105	0			0.006 ^	0.1
Potatoes	210	0			0.006 ^	0.15
Spinach	210	0			0.006 ^	NT
Strawberries	744	0			0.006 - 0.018	0.60
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
Sweet Potatoes	<u>210</u>	Q			0.006 ^	NT
TOTAL	3,355	0				
Sulprofos (insecticide)						
Apples	534	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	534	0			0.002 ^	NT
		-			0.002 ^	
Green Onions	<u>558</u>	<u>Q</u>			0.002 ^	NT
TOTAL	1,810	0				
TCMTB (fungicide)	46=				0.040	
Sweet Corn, Fresh	467	0			0.010 ^	NT
Sweet Corn, Frozen	<u>67</u>	<u>0</u>			0.010 ^	NT
TOTAL	534	0				
Tebuconazole (fungicide)						
Apples	744	1	0.1	0.007 ^	0.002 - 0.042	0.05
Asparagus	210	0			0.042 ^	0.05
Cilantro (V-3)	184	3	1.6	0.003 - 0.023	0.002 - 0.006	NT
Cucumbers	744	0			0.002 - 0.042	0.09
Garbanzo Beans, Canned	51	0			0.042 ^	0.1
Grapes	744	159	21.4	0.003 - 0.65	0.003 - 0.042	5.0
Green Onions	558	0		0.000 0.00	0.006 ^	1.3
Kidney Beans, Canned	54	Ö			0.042 ^	0.1
Oranges	210	Ö			0.030 ^	NT
Pinto Beans, Canned	105	0			0.030 ^	0.1
Potatoes	210				0.042 ^	NT
		0				
Spinach	210	0			0.042 ^	NT
Strawberries (V-1)	744	1	0.1	0.003 ^	0.003 - 0.042	NT
Sweet Corn, Fresh	201	0			0.042 - 0.14	0.5
Sweet Corn, Frozen	8	0			0.042 ^	0.5
Sweet Potatoes	<u>210</u>	<u>0</u>			0.042 ^	NT
TOTAL	5,187	164				
Tebufenozide (insecticide)						
Apples	609	1	0.2	0.031 ^	0.003 - 0.010	1.0
Asparagus	210	0			0.003 ^	NT
Cilantro	184	0			0.003 - 0.020	NT
Cucumbers (V-1)	744	1	0.1	0.014 ^	0.003 - 0.010	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	744	2	0.3	0.006 - 0.031	0.003 ^	3.0
Green Onions	558	0	0.0	0.000 0.001	0.010 - 0.020	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	744	0			0.003 - 0.005	0.80
Pears	744 742				0.003 - 0.005	1.5
		0				
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0	2.2	0.000 0.01=	0.003 ^	NT
Spinach	744	2	0.3	0.006 - 0.015	0.003 - 0.005	10.0
Strawberries	744	0			0.003 ^	3.0
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>739</u>	<u>0</u>			0.003 - 0.005	0.25

Destinide / Common diffe	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Tecnazene (plant growth regula						
Apples	534	0			0.005 ^	NT
Cilantro (V-2)	184	2	1.1	0.008 ^	0.005 ^	NT
Cucumbers	534	0			0.005 ^	NT
Green Onions	<u>542</u>	<u>O</u>			0.005 - 0.032	NT
TOTAL	1,794	2				
Tefluthrin (insecticide)						
Apples	744	0			0.002 - 0.006	NT
Asparagus	744	0			0.006 - 0.010	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.006	NT
Grapes	744	0			0.006 - 0.015	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.006	NT
Lettuce, Organic	387	0			0.013 ^	NT
Oranges	210	0			0.006 ^	NT
Pinto Beans, Canned	372	-			0.002 - 0.006	NT
Potatoes	744	0			0.002 - 0.006	NT
Spinach	210	0			0.002 - 0.006	NT
Strawberries		0				
	744	0			0.006 - 0.015	NT
Sweet Corn, Fresh	668	0			0.006 - 0.010	0.06
Sweet Corn, Frozen	75	0			0.006 - 0.010	0.06
Sweet Potatoes	<u>210</u>	<u>0</u>			0.006 ^	NT
TOTAL	7,710	0				
Terbacil (herbicide)						
Apples	729	0			0.006 - 0.021	0.3
Asparagus	744	0			0.021 - 0.060	0.4
Cilantro	164	0			0.006 - 0.040	NT
Cucumbers	744	0			0.006 - 0.021	NT
Garbanzo Beans, Canned	51	0			0.030 ^	NT
Grapes	210	0			0.021 ^	NT
Green Onions	558	0			0.006 ^	NT
Kidney Beans, Canned	54	0			0.030 ^	NT
Oranges	193	0			0.021 ^	NT
Pinto Beans, Canned	105	0			0.030 ^	NT
Potatoes	210	0			0.030 - 0.080	NT
Spinach	210	0			0.021 ^	NT
Strawberries	210	-			0.021 ^	0.1
Sweet Corn, Fresh	201	0			0.030 - 0.080	NT
•		0				
Sweet Corn, Frozen	8	0			0.030 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>4,601</b>	<u>0</u> <b>0</b>			0.030 ^	NT
Tankada a Carandialda)	•					
Terbufos (insecticide) Apples	744	0			0.002 ^	NT
		0				
Asparagus	210	0			0.002 ^	NT
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	656	0			0.002 - 0.005	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.020	0.05
Sweet Corn, Frozen	75	0			0.002 - 0.020	0.05
5.700t 50m, 1 1020m						
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT

Pesticide / Commodity	Samples	with Detections	with Detections	Range of Values Detected, ppm	Range of LODs, ppm	Tolerance Level, ppm
	•	2010011101110		2000000, рр	<b>PP</b>	
Terbufos sulfone (metabolite of	f Terbufos) 744	0			0.002 ^	NT
Apples	210	0			0.002 ^	NT
Asparagus	-	0				
Cilantro	184	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	51	0			0.002 ^	NT
Grapes	210	0			0.002 ^	NT
Green Onions	558	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Oranges	210	0			0.002 ^	NT
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	210	0			0.002 ^	NT
Strawberries	210	0			0.002 ^	NT
Sweet Corn, Fresh	668	0			0.002 - 0.010	0.05
Sweet Corn, Frozen	75	0			0.002 - 0.010	0.05
Sweet Potatoes	<u>210</u>	<u>0</u>			0.002 ^	NT
TOTAL	4,653	0			5.552	
T	114 <b></b>	>				
Terbufos oxygen analog (metal Sweet Corn, Fresh	oolite of Terbut 467	•			0.002 ^	0.05
-	_	0				
Sweet Corn, Frozen	<u>67</u>	<u>Q</u>			0.002 ^	0.05
TOTAL	534	0				
Tetrachlorvinphos (insecticide)						
Apples	744	0			0.003 ^	NT
Asparagus	210	0			0.003 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers	744	0			0.003 ^	NT
Garbanzo Beans, Canned	51	0			0.003 ^	NT
Grapes	210	0			0.003 ^	NT
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Oranges	210	0			0.003 ^	NT
Pinto Beans, Canned	105	0			0.003 ^	NT
Potatoes	210	0			0.003 ^	NT
Spinach	210	0			0.003 ^	NT
Strawberries	210	0			0.003 ^	NT
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.003 ^	NT
TOTAL	4,119	0				
Tetradifon (insecticide)						
	744	0			0.006 - 0.032	NT
Apples		0				
Asparagus	210	0			0.006 ^	NT NT
Cilantro	184	0			0.032 ^	NT
Cucumbers	744	0			0.006 - 0.032	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.006	NT
Grapes	744	0			0.006 - 0.010	NT
Green Onions	558	0			0.032 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.006	NT
Oranges	210	0			0.006 ^	NT
Pinto Beans, Canned	372	0			0.002 - 0.006	NT
Potatoes	744	0			0.002 - 0.006	NT
Spinach	210	0			0.006 ^	NT
Strawberries	744	0			0.006 - 0.010	NT
Sweet Corn, Fresh	201	0			0.006 ^	NT
Sweet Corn, Frozen	8	0			0.006 ^	NT
SWOOL SOIII, I IUZEII	210				0.006 ^	NT
Sweet Potatoes	-7111	<u>0</u>				

	Number of	Samples with	% of Samples with	Range of Values	Range of LODs,	EPA Tolerance
Pesticide / Commodity	Samples	Detections	Detections	Detected, ppm	ppm	Level, ppr
Tetrahydrophthalimide - THPI	(metabolite of C	aptafol and C	aptan)			
Apples	744	118	15.9	0.033 - 0.92	0.020 - 0.16	25.0
Asparagus	210	0			0.090 ^	NT
Cilantro (V-1)	184	1	0.5	0.033 ^	0.020 ^	NT
Cucumbers (X-1)	744	6	0.8	0.033 - 0.23	0.020 - 0.090	0.05
Garbanzo Beans, Canned	186	0			0.071 - 0.090	0.05
Grapes	210	0			0.090 ^	25.0
Green Onions	558	Ö			0.020 ^	0.05
Kidney Beans, Canned	186	Ö			0.071 - 0.090	0.05
Oranges	210	0			0.060 ^	NT
Pinto Beans, Canned	372	0			0.071 - 0.090	0.05
Potatoes (X-4)	708	4	0.6	0.15 ^	0.071 - 0.090	0.05
			0.0	0.15 ^		
Spinach	210	0			0.090 ^	0.05
Strawberries	210	116	55.2	0.15 - 2.4	0.090 ^	20.0
Sweet Corn, Fresh	183	0			0.090 ^	0.05
Sweet Corn, Frozen	8	0			0.090 ^	0.05
Sweet Potatoes (X-1)	<u>210</u>	<u>1</u>	0.5	0.15 ^	0.090 ^	0.05
TOTAL	5,133	246				
Tetramethrin (insecticide)						
Apples	210	0			0.030 ^	NT
Asparagus	744	0			0.010 - 0.030	NT
Cucumbers	210	0			0.030 ^	NT
Garbanzo Beans, Canned	186	0			0.005 - 0.030	NT
Grapes	744	0			0.020 - 0.030	NT
Kidney Beans, Canned	186	0			0.005 - 0.030	NT
Lettuce, Organic	387	Ö			0.040 ^	NT
	744	0				NT
Oranges		-			0.010 - 0.030	
Pears	742	0			0.059 ^	NT
Pinto Beans, Canned	372	0			0.005 - 0.030	NT
Potatoes	744	0			0.005 - 0.030	NT
Spinach (V-1)	744	1	0.1	0.017 ^	0.010 - 0.030	NT
Strawberries	744	0			0.020 - 0.030	NT
Sweet Corn, Fresh	668	0			0.030 ^	NT
Sweet Corn, Frozen	75	0			0.030 ^	NT
Sweet Potatoes	<u>717</u>	<u>0</u>			0.015 - 0.030	NT
TOTAL	8,217	<u>v</u> 1			0.010 0.000	
	-,					
Thiabendazole (fungicide) (p						
Apples (X-2)	744	561	75.4	0.002 - 5.9	0.001 - 0.003	5.0
Asparagus (V-1)	210	1	0.5	0.005 ^	0.003 ^	NT
Cilantro	184	0			0.003 ^	NT
Cucumbers (V-9)	744	9	1.2	0.002 - 0.004	0.001 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	744	0			0.003 ^	NT
Green Onions	558	Ö			0.001 ^	NT
Kidney Beans, Canned	186				0.001 - 0.003	NT
,		0	67 F	0.005 - 0.38		
Oranges	744	502	67.5		0.003 - 0.010	10.0
Pinto Beans, Canned (V-1)	372	1	0.3	0.003 ^	0.001 - 0.003	NT
Potatoes	744	60	8.1	0.002 - 1.5	0.001 - 0.030	10.0
Spinach	722	0			0.003 - 0.010	NT
Strawberries	744	6	0.8	0.004 - 0.037	0.003 ^	5.0
Sweet Corn, Fresh	201	0			0.003 ^	NT
Sweet Corn, Frozen	8	0			0.003 ^	NT
	<u>739</u>	<u>3</u>	0.4	0.005 ^	0.003 - 0.010	0.05
Sweet Potatoes		1,143	• • • • • • • • • • • • • • • • • • • •	0.000	0.000	0.00
Sweet Potatoes TOTAL	7.030	-,				
	7,830					
TOTAL Thiacloprid (insecticide)	·					
TOTAL	744	67	9.0	0.002 - 0.057	0.001 - 0.002	0.3
TOTAL Thiacloprid (insecticide)	·	67 0	9.0	0.002 - 0.057	0.001 - 0.002 0.002 ^	0.3 NT
TOTAL  Thiacloprid (insecticide)  Apples	744		9.0	0.002 - 0.057		
TOTAL  Thiacloprid (insecticide) Apples Asparagus	744 210	0	9.0	0.002 - 0.057	0.002 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Detections	Deteoted, ppin		
Grapes Green Onions	744 558	0			0.001 - 0.002 0.003 ^	NT NT
Kidney Beans, Canned	556 54	0 0			0.003 ^	NT
- · · · · · · · · · · · · · · · · · · ·	387	0				NT
Lettuce, Organic		0			0.005 ^	NT
Oranges	744	0 35	4.7	0.025 - 0.22	0.002 - 0.010 0.015 ^	
Pears	742		4.7	0.025 - 0.22		0.30
Pinto Beans, Canned	105	0			0.002 ^	NT
Potatoes	210	0			0.002 ^	NT
Spinach	298	0			0.002 - 0.010	NT
Strawberries	744	0			0.001 - 0.002	NT
Sweet Corn, Fresh	201	0			0.002 ^	NT
Sweet Corn, Frozen	8	0			0.002 ^	NT
Sweet Potatoes	<u>739</u>	<u>0</u>			0.002 - 0.010	NT
TOTAL	7,467	102				
Thiamethoxam (insecticide) (ale Apples	so a parent of	Clothianidin)			0.002 - 0.005	0.2
Asparagus	210	0			0.002 ^	NT
Cilantro (V-2)	184	2	1.1	0.008 ^	0.005 ^	NT
Cucumbers	744	86	11.6	0.003 - 0.19	0.005 /	0.2
Garbanzo Beans, Canned	744 186	0	11.0	0.003 - 0.19	0.002 - 0.003	0.2
•		5	0.7	0.006 0.070		
Grapes	744		0.7	0.006 - 0.078	0.002 - 0.005	0.20
Green Onions	558	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	0.02
Lettuce, Organic	387	0			0.020 ^	4.0
Oranges	744	0			0.002 - 0.010	0.40
Pears	742	1	0.1	0.025 ^	0.015 ^	0.2
Pinto Beans, Canned	372	0			0.002 - 0.003	0.02
Potatoes	744	55	7.4	0.003 - 0.032	0.002 - 0.003	0.25
Spinach	744	1	0.1	0.003 ^	0.002 - 0.010	4.0
Strawberries	744	46	6.2	0.003 - 0.25	0.002 - 0.005	0.3
Sweet Corn, Fresh	668	0			0.002 - 0.040	0.02
Sweet Corn, Frozen	75	0			0.002 - 0.040	0.02
Sweet Potatoes	739	0			0.002 - 0.010	0.02
Tomato Paste	<u>742</u>	Ω			0.049 ^	0.80
TOTAL	10,257	196				
Thiobencarb (herbicide)	-					
` ,	744	•			0.004 0.040	NIT
Apples		0			0.001 - 0.012	NT
Asparagus	210	0			0.012 ^	NT
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	0			0.001 - 0.012	NT
Garbanzo Beans, Canned	51	0			0.012 ^	NT
Grapes	210	0			0.012 ^	NT
Green Onions	558	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.012 ^	NT
Oranges	210	0			0.021 ^	NT
Pinto Beans, Canned	105	0			0.012 ^	NT
Potatoes	210	0			0.012 ^	NT
Spinach	210	0			0.012 ^	NT
Strawberries	210	0			0.012 ^	NT
Sweet Corn, Fresh	201	0			0.012 ^	NT
Sweet Corn, Frozen	8	0			0.012 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.012 ^	NT
TOTAL	4,119	0				
Thiodicarb (insecticide)	•					
Apples	210	0			0.006 ^	NT
Asparagus	193	0			0.006 ^	NT
Cucumbers	210	0			0.006 ^	NT
	51	0			0.006 ^	NT
Garbanzo Beans, Canned	O I	U				
Garbanzo Beans, Canned Granes	210	Λ			U UUS V	NIT
Grapes	210	0			0.006 ^	NT NT
•	210 54 210	0 0 0			0.006 ^ 0.006 ^ 0.006 ^	NT NT NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
•	•		Detections	Detected, ppin		
Potatoes	210	0			0.006 ^	NT
Strawberries	210	0			0.006 ^	NT
Sweet Potatoes TOTAL	<u>210</u> <b>1,873</b>	<u>0</u> <b>0</b>			0.006 ^	NT
TOTAL	1,073	U				
Thionazin (insecticide, fumigan	t)					
Apples	210	0			0.001 ^	NT
Asparagus	210	0			0.001 ^	NT
Cucumbers	210	0			0.001 ^	NT
Garbanzo Beans, Canned	51	0			0.001 ^	NT
Grapes	210	0			0.001 ^	NT
Kidney Beans, Canned	54	0			0.001 ^	NT
Oranges	210	0			0.001 ^	NT
Pinto Beans, Canned	105	0			0.001 ^	NT
Potatoes	210	0			0.001 ^	NT
Spinach	210	0			0.001 ^	NT
Strawberries	210	0			0.001 ^	NT
Sweet Corn, Fresh	201	0			0.001 ^	NT
Sweet Corn, Frozen	8	0			0.001 ^	NT
Sweet Potatoes	<u>210</u>	<u>0</u>			0.001 ^	NT
TOTAL	2,309	0				
Thiophanate methyl (fungicide)						
Pears	<u>742</u>	22	3.0	0.025 - 0.47	0.015 ^	3.0
TOTAL	742	22				
Tolyfluanid (fungicide)						
Grapes	534	0			0.097 ^	11
Strawberries	468	0			0.010 - 0.097	NT
Tomato Paste	<u>742</u>	<u>0</u>			0.043 ^	2.0
TOTAL	1,744	0				
Tralomethrin (insecticide)						
Pears	742	0			0.11 ^	0.02
Tomato Paste	<u>742</u>	<u>0</u>			0.23 ^	0.02
TOTAL	1,484	0				
	•					
Tri-Allate (herbicide)	504				0.045.4	NIT
Oranges Sweet Potatoes	534	0			0.015 ^	NT
	<u>529</u>	<u>0</u>			0.015 ^	NT
TOTAL	1,063	0				
Triadimefon (fungicide) (also a	parent of Tria	dimenol)				
Apples	744	0			0.001 - 0.027	1.0
Asparagus	210	0			0.027 ^	NT
Cucumbers (V-4)	744	4	0.5	0.002 - 0.007	0.0009 - 0.027	NT
Garbanzo Beans, Canned	51	0			0.027 ^	NT
Grapes	744	16	2.2	0.001 - 0.005	0.001 - 0.027	1.0
Green Onions	558	0			0.003 - 0.006	NT
Kidney Beans, Canned	54	0			0.027 ^	NT
Oranges	210	0			0.027 ^	NT
Pears	742	0			0.036 ^	1.0
Pinto Beans, Canned	105	0			0.027 ^	NT
Potatoes	210	0			0.027 ^	NT
Spinach	210	0			0.027 ^	NT
Strawberries	744	0			0.001 - 0.027	NT
Owner Com Free I	201	0			0.027 ^	NT
Sweet Corn, Fresh	8	0			0.027 ^	NT
Sweet Corn, Fresh Sweet Corn, Frozen					0.007.4	NT
Sweet Corn, Frozen Sweet Potatoes	210	<u>0</u>			0.027 ^	
Sweet Corn, Frozen		<u>0</u> <b>20</b>			0.027 ^	
Sweet Corn, Frozen Sweet Potatoes TOTAL	210 5,745	20			0.027 ^	
Sweet Corn, Frozen Sweet Potatoes TOTAL Triadimenol (fungicide) (also a	210 5,745 metabolite of	20 Triadimefon)				
Sweet Corn, Frozen Sweet Potatoes TOTAL  Triadimenol (fungicide) (also a la Apples	210 5,745 metabolite of 210	20 Triadimefon) 0			0.015 ^	1.0
Sweet Corn, Frozen Sweet Potatoes TOTAL Triadimenol (fungicide) (also a	210 5,745 metabolite of	20 Triadimefon)				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Grapes	744		3.5		0.006 - 0.015	1.0
Kidney Beans, Canned	744 36	26 0	3.3	0.006 - 0.071	0.006 - 0.015	NT
, ,	210	0			0.015 ^	NT
Oranges						
Pinto Beans, Canned	87	0			0.015 ^	NT
Potatoes	210	0			0.015 - 0.030	NT
Spinach	210	0			0.015 ^	NT
Strawberries	744	0			0.006 - 0.015	NT
Sweet Corn, Fresh	668	0			0.015 - 0.050	0.05
Sweet Corn, Frozen	75	0			0.015 - 0.050	0.05
Sweet Potatoes	<u>210</u>	<u>0</u>			0.030 ^	NT
TOTAL	3,875	26				
Triclopyr (herbicide)						
Grapes	534	0			0.013 ^	NT
Strawberries	<u>534</u>	Q			0.013 ^	NT
TOTAL	1,068	ō				
Trifloxystrobin (fungicide)						
Apples	744	28	3.8	0.002 - 0.012	0.001 - 0.002	0.5
Asparagus	744	0	-		0.002 - 0.030	0.07
Cilantro	184	0			0.001 ^	NT
Cucumbers	744	5	0.7	0.002 - 0.007	0.001 - 0.002	0.50
Garbanzo Beans, Canned	186	0	0.7	0.002 - 0.007	0.002 - 0.003	NT
Grapes	744	211	28.4	0.003 - 0.31	0.002 - 0.003	2.0
•			20.4	0.003 - 0.31		
Green Onions	542	0			0.001 - 0.003	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	NT
Oranges	744	0			0.002 - 0.005	0.6
Pears	742	6	8.0	0.008 - 0.034	0.005 ^	0.5
Pinto Beans, Canned	372	0			0.002 - 0.003	NT
Potatoes	744	0			0.002 - 0.003	0.04
Spinach	744	0			0.002 - 0.005	NT
Strawberries	744	10	1.3	0.003 - 0.13	0.002 - 0.003	1.1
Sweet Corn, Fresh	668	0			0.002 - 0.030	0.04
Sweet Corn, Frozen	75	0			0.002 - 0.030	0.04
Sweet Potatoes	739	0			0.002 - 0.005	NT
Tomato Paste	742	<u>0</u>			0.016 ^	0.5
TOTAL	10,388	2 <u>6</u> 0				
Triflumizole (fungicide)						
Apples	210	0			0.060 ^	0.5
Asparagus	210	0			0.060 ^	NT
Cucumbers	210	0			0.060 ^	0.5
Garbanzo Beans, Canned	51	0			0.060 ^	NT
•	-		2.0	0.004 0.040		
Grapes	744	15	2.0	0.001 - 0.046	0.001 - 0.060	2.5
Kidney Beans, Canned	54	0			0.060 ^	NT
Oranges	744	0			0.003 - 0.060	NT
Pears	742	0			0.015 ^	0.5
Pinto Beans, Canned	105	0			0.060 ^	NT
Potatoes	210	0			0.060 ^	NT
Spinach	744	0			0.003 - 0.060	NT
Strawberries	744	81	10.9	0.001 - 0.41	0.001 - 0.060	2.0
Sweet Corn, Fresh	183	0			0.060 - 0.12	NT
Sweet Corn, Frozen	8	Ö			0.060 - 0.12	NT
Sweet Potatoes	739	<u>0</u>			0.003 - 0.060	NT
TOTAL	5,698	96				
Trifluralin (herbicide)						
Apples	744	0			0.001 - 0.018	NT
Asparagus	744	0			0.018 - 0.030	0.05
Cucumbers	744 744				0.016 - 0.030	0.05
		0				
Garbanzo Beans, Canned	186	0			0.001 - 0.018	0.05
Grapes	744	0			0.018 ^	0.05
Caran Oniona	542	0			0.001 - 0.003	0.05
Green Onions	-	-				
Kidney Beans, Canned	186	0			0.017 - 0.018 0.015 - 0.030	0.05 0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Pinto Beans, Canned	372	0			0.001 - 0.018	0.05
Potatoes	744	4	0.5	0.001 - 0.002	0.001 - 0.018	0.05
Spinach (V-1)	744	1	0.1	0.029 ^	0.015 - 0.018	NT
Strawberries	744	0			0.018 ^	NT
Sweet Corn, Fresh	201	0			0.018 ^	0.05
Sweet Corn, Frozen	8	0			0.018 ^	0.05
Sweet Potatoes	739	0			0.015 - 0.018	0.05
Tomato Paste	<u>742</u>	<u>0</u>			0.095 ^	0.05
TOTAL	8,928	5				
Triticonazole (fungicide)						
Oranges	534	0			0.010 ^	NT
Spinach	88	0			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,151	0				
Vernolate (herbicide)						
Oranges	534	0			0.010 ^	NT
Sweet Potatoes	<u>529</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,063	0				
Vinclozolin (fungicide)						
Apples	744	0			0.004 - 0.008	NT
Asparagus	210	0			0.008 ^	NT
Cilantro	180	0			0.004 - 0.024	NT
Cucumbers	744	0			0.004 - 0.008	NT
Garbanzo Beans, Canned	186	0			0.001 - 0.008	2.0
Grapes	744	0			0.008 - 0.020	6.0
Green Onions	526	0			0.004 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.008	2.0
Oranges	210	0			^ 800.0	NT
Pinto Beans, Canned	372	0			0.001 - 0.008	2.0
Potatoes	744	0			0.001 - 0.008	NT
Spinach	210	0			0.008 ^	NT
Strawberries	744	0			0.008 - 0.020	NT
Sweet Corn, Fresh	201	0			0.008 ^	NT
Sweet Corn, Frozen	8	0			0.008 ^	NT
Sweet Potatoes	210	<u>0</u>			0.008 ^	NT
TOTAL	6,219	0				
Zoxamide (fungicide)						
Tomato Paste	742	<u>0</u>			0.033 ^	2.0
TOTAL	742	<u> </u>				

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 2009 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

#### **NOTES**

- ^ Only one distinct detected concentration or LOD value was reported for the pair.
- NT = No tolerance level was set for that pesticide/commodity pair.
- AL = Numbers shown are Action Levels established by FDA for some pesticides. Under 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.
- EX = Azadirachtin A, Azadirachtin B, Pyrethrum (natural pyrethrins), Rotenone, and Salannin are compounds which have been approved for use in organic farming practices by the USDA National Organic Program. They are exempt from the requirement of a tolerance on all raw agricultural commodites. Positive detects of these compounds on organic lettuce are not considered to be tolerance violations.
- (V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.
- (X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences.

# **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 Appendices apply to 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2009, the Pesticide Data Program (PDP) analyzed 435 rice samples. PDP detected 15 different residues (including metabolites), representing 14 pesticides, in the rice samples.

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

Action Levels (ALs) are shown in this appendix, where applicable, and denote AL values established by the U.S. Food and Drug Administration. 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 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
Acetochlor	Н	415				0.003 ^	NT
Aldrin	1	435				0.003 ^	0.02 AL
Allethrin (V-3)	1	394	3	0.8	0.017 ^	0.010 ^	NT
Azinphos methyl	1	415				0.050 ^	NT
Azinphos methyl oxygen analog	IM	435				0.010 ^	NT
Azoxystrobin	F	415				0.010 ^	5.0
Benoxacor	S	435				0.020 ^	0.01
BHC alpha	1	435				0.003 ^	0.05 AL
Bifenthrin	1	415				0.001 ^	0.05
Boscalid	F	415				0.003 ^	0.20
Carbaryl	1	395	1	0.3	0.042 ^	0.010 ^	15
Carbendazim (MBC)	F	435	2	0.5	0.009 - 0.010	0.003 ^	5.0
Carbofuran	1	216				0.003 ^	0.2
Carboxin	F	394				0.006 ^	0.2
Carfentrazone ethyl	Н	435				0.001 ^	1.3
Chlorpyrifos	1	435				0.010 ^	0.1
Chlorpyrifos methyl	1	435				0.10 ^	6.0
Chlorpyrifos methyl O-analog	IM	435				0.006 ^	6.0
Chlorpyrifos oxygen analog	IM	398				0.006 ^	0.1
Clomazone	Н	435				0.006 ^	0.02
Cyfluthrin	1	375				0.006 ^	0.05
Cyhalofop butyl	Н	395				0.001 ^	0.03
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	ı	415				0.012 ^	1.0
Cypermethrin	1	395				0.030 ^	1.50
Cyphenothrin	1	217				0.003 ^	NT
DDD p,p'	IM	354	4	1.1	0.002 - 0.008	0.001 ^	0.5 AL
DDT p,p'	1	414				0.003 ^	0.5 AL
Deltamethrin (includes parent Tralomethrin)	I	308				0.006 ^	1.0
Dieldrin	1	435				0.003 ^	0.02 AL
Diflubenzuron	I	435				0.020 ^	0.02
Dimethomorph	F	404				0.006 ^	0.05

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Endosulfan I	1	335				0.003 ^	NT
Endosulfan II (V-1)	IM	433	1	0.2	0.005 ^	0.003 ^	NT
Endosulfan sulfate (V-1)	IM	374	1	0.3	0.002 ^	0.001 ^	NT
EPTC	Н	435				0.010 ^	0.1
Esfenvalerate	1	435				0.006 ^	0.05
Fenbuconazole	F	95				0.006 ^	NT
Fenoxaprop ethyl	Н	415				0.001 ^	0.05
Fenpropathrin	1	395				0.003 ^	NT
Fipronil	1	415				0.10 ^	0.04
Fludioxonil	F	414	1	0.2	0.010 ^	0.006 ^	0.02
Fluridone	Н	435				0.030 ^	0.1
Flutolanil	F	414				0.003 ^	7.0
Fluvalinate	1	415				0.003 ^	NT
Heptachlor	1	435				0.003 ^	0.01 AL
Heptachlor epoxide	IM	395				0.001 ^	0.01 AL
Hydroprene	R	414				0.006 ^	0.2
3-Hydroxycarbofuran	IM	435				0.010 ^	0.2
Imidacloprid	1	435	1	0.2	0.011 ^	0.010 ^	0.05
Imiprothrin	1	435				0.020 ^	NT
Iprodione	F	415				0.003 ^	10.0
Isoxadifen ethyl	s	435				0.010 ^	0.10
Lindane (BHC gamma)	1	435				0.006 ^	0.1 AL
Malathion	1	435	8	1.8	0.017 - 0.043	0.010 ^	8
Malathion oxygen analog	IM	414				0.006 ^	8
Metalaxyl	F	435				0.006 ^	0.1
Methamidophos	I	335				0.020 ^	0.02
Methomyl	1	435				0.010 ^	NT
Metolachlor	Н	435				0.006 ^	0.10
MGK-264	I	435	38	8.7	0.050 - 1.4	0.030 ^	10
Myclobutanil	F	414				0.003 ^	0.03
Parathion methyl	I	435				0.010 ^	1.0
Parathion methyl oxygen analog	IM	435				0.006 ^	1.0
Pendimethalin	Н	435				0.10 ^	0.1
Permethrin Total (V-5)	ı	414	5	1.2	0.17 ^	0.10 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs,	EPA Tolerance Level, ppm
Phenothrin	I	335				0.003 ^	NT
Piperonyl butoxide	1	435	73	16.8	0.010 - 0.46	0.006 ^	20
Propanil	Н	435	1	0.2	0.11 ^	0.003 ^	10
Propetamphos	1	394				0.003 ^	0.1
Propiconazole	F	435	5	1.1	0.011 - 0.061	0.010 ^	7.0
Pyriproxyfen	1	276				0.003 ^	1.1
Resmethrin	I	415	3	0.7	0.011 - 0.019	0.003 ^	3.0
Spinosad A	IM	415				0.020 ^	1.5
Spinosad D	IM	415				0.020 ^	1.5
TCMTB	F	435				0.020 ^	0.1
Tefluthrin	1	435				0.003 ^	NT
Tetrahydrophthalimide (THPI)	FM	372				0.10 ^	0.05
Tetramethrin	I	415				0.030 ^	NT
Thiobencarb	Н	435				0.010 ^	0.2
Trifloxystrobin	F	435				0.006 ^	3.5
Trifluralin	Н	435				0.003 ^	NT

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2009 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

### **NOTES**

- ^ = Only one distinct detected concentration or LOD value was reported for the pair.
- NT = No tolerance level was set for that pesticide/commodity pair.
- AL = Numbers shown are Action Levels established by FDA for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.
- (V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.

### **Pesticide Types:**

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

## Appendix D

# Distribution of Residues by Pesticide in Beef

Appendix D shows residue detections for all compounds tested in beef, 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 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2009, the Pesticide Data Program (PDP) analyzed 584 beef tissue samples, consisting of 292 adipose samples and 292 muscle samples. PDP detected 13 different residues (including metabolites), representing 9 pesticides, in the adipose and muscle samples. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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

Action Levels (ALs) are shown in this appendix, where applicable, and denote AL values established by the U.S. Food and Drug Administration. 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.

EPA tolerances as published in *40 CFR Part 180* are expressed in parts per million (ppm). Because beef residues are expressed in parts per billion (ppb), EPA tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

# APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN BEEF

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb <sup>*</sup>
•		Campico	Detections	Detections	Detected, ppb	сово, ррь	Lovel, ppb
Acephate	I	000				000 4	400
Beef Adipose		292				200 ^	100
Beef Muscle		292				200 ^	100
Acetamiprid	1						
Beef Adipose		292				60 ^	100
Beef Muscle		292				60 ^	100
Alachlor	Н						
Beef Adipose		292				20 ^	20
Beef Muscle		292				20 ^	20
Aldicarb	1						
Beef Adipose		292				100 ^	NT
Beef Muscle		292				100 ^	NT
Aldicarb sulfone	IM						
Beef Adipose	IIVI	292				40 ^	NT
Beef Muscle		292				40 ^	NT
Aldicarb sulfoxide	IM						
	IIVI	292				800 ^	NT
Beef Adipose Beef Muscle		292 292				800 ^	NT
		232				000**	INI
Aldrin	I	000				00.4	NIT
Beef Adipose		292				20 ^	NT
Beef Muscle		292				20 ^	NT
Allethrin	I						
Beef Adipose		292				20 ^	NT
Beef Muscle		292				20 ^	NT
Atrazine	Н						
Beef Adipose		292				8.0 ^	20
Beef Muscle		292				8.0 ^	20
Azinphos methyl	ı						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Azoxystrobin	F						
Beef Adipose	I.	292				4.0 ^	30
Beef Muscle		292				4.0 ^	10
Benfluralin	Н						-
Beef Adipose	П	292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
		202				1.0	141
BHC alpha	I	202				404	NIT.
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Bifenazate	Α						
Beef Adipose		292				40 ^	100
Beef Muscle		292				40 ^	20

Posticido / Commodity	Pest.	Number of Samples	Samples with	% of Samples with	Range of Values	Range of	EPA Tolerance
Pesticide / Commodity	Туре	Samples	Detections	Detections	Detected, ppb	LODs, ppb	Level, ppb*
Bifenthrin	I						
Beef Adipose		292	15	5.1	1.3 - 3.4	1.0 ^	1000
Beef Muscle		292	1	0.3	1.2 ^	1.0 ^	500
Boscalid	F						
Beef Adipose		292				12 ^	300
Beef Muscle		292				12 ^	100
Captan	F						
Beef Adipose		292				20 ^	150
Beef Muscle		292				20 ^	200
Carbaryl	1						
Beef Adipose		292				20 ^	500
Beef Muscle		292				20 ^	1000
Carbofuran	1						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Carbophenothion	1						
Beef Adipose	-	292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Carboxin	F						
Beef Adipose		292				12 ^	50
Beef Muscle		292				12 ^	50
Carfentrazone ethyl	Н						
Beef Adipose		292				4.0 ^	100
Beef Muscle		292				4.0 ^	100
Chlordane cis	1						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Chlordane trans	1						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Chlorfenvinphos total	1						
Beef Adipose		292				40 ^	NT
Beef Muscle		292				40 ^	NT
Chlorothalonil	F						
Beef Adipose	•	292				8.0 ^	100
Beef Muscle		292				8.0 ^	30
Chlorpropham	Н						
Beef Adipose	11	292				40 ^	200
Beef Muscle		292				40 ^	60
Chlorpyrifos	I						
Beef Adipose	ı	292				1.0 ^	300
Beef Muscle		292				1.0 ^	50

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Chlorpyrifos methyl	1						
Beef Adipose		292				4.0 ^	500
Beef Muscle		292				4.0 ^	500
Clofentezine	I						
Beef Adipose		292				30 ^	50
Beef Muscle		292				30 ^	50
Clothianidin	I						
Beef Adipose		292				40 ^	NT
Beef Muscle		292				40 ^	20
Coumaphos	1						
Beef Adipose		292				1.0 - 4.0	1000
Beef Muscle		292				1.0 - 4.0	1000
Cyfluthrin	I						
Beef Adipose		292	2	0.7	19.8 - 128	4.0 ^	2000
Beef Muscle		292	1	0.3	6.6 ^	4.0 ^	100
Cyhalothrin, Total (Cyhalothrin-L +							
R157836 epimer)	I						
Beef Adipose		292	34	11.6	1.0 - 33.9	1.0 ^	3000
Beef Muscle		292	7	2.4	1.2 - 3.6	1.0 ^	200
Cypermethrin	I						
Beef Adipose		292				4.0 ^	1000
Beef Muscle		292				4.0 ^	200
Cyphenothrin	I						
Beef Adipose		292				20 ^	NT
Beef Muscle		292				20 ^	NT
DDD o,p'	IM						
Beef Adipose		292				2.0 ^	5000 AL
Beef Muscle		292				2.0 ^	5000 AL
DDD p,p'	IM						
Beef Adipose		292	1	0.3	4.6 ^	2.0 ^	5000 AL
Beef Muscle		292				2.0 ^	5000 AL
DDE o,p'	IM						
Beef Adipose		292				2.0 ^	5000 AL
Beef Muscle		292				2.0 ^	5000 AL
DDE p,p'	IM						
Beef Adipose		292	69	23.6	2.1 - 103	2.0 ^	5000 AL
Beef Muscle		292	20	6.8	2.3 - 34.6	2.0 ^	5000 AL
DDT p,p'	I						
Beef Adipose		292	1	0.3	16.1 ^	8.0 ^	5000 AL
Beef Muscle		292				8.0 ^	5000 AL
DEF (Tribufos)	Н						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT

40 ^ 40 ^ 40 ^ 4.0 ^ 12 ^ 12 ^ 4.0 ^ 4.0 ^	50 20 500 NT 20 20 50000 3000
40 ^ 4.0 ^ 4.0 ^ 12 ^ 12 ^ 4.0 ^ 4.0 ^	20 500 NT 20 20
40 ^ 4.0 ^ 4.0 ^ 12 ^ 12 ^ 4.0 ^ 4.0 ^	20 500 NT 20 20
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12 ^ 12 ^ 4.0 ^ 4.0 ^	20 20 50000
4.0 ^ 4.0 ^ 20 ^	20 50000
4.0 ^ 4.0 ^ 20 ^	20 50000
4.0 ^ 4.0 ^ 20 ^	50000
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_	NT
	NT
50 ^	50
50 ^	50 50
00	30
16 ^	NT
16 ^	NT
40 ^	100
40 ^	20
50 ^	50
50 ^	50
2.0 ^	10
2.0 ^	10
CO A	4000
	1000 1000
00	1000
0.0.1	40000
	13000
2.0 ^	2000
2.0 ^	13000
2.0 ^	2000
	13000
2.0 ^	2000
	60 ^ 60 ^ 2.0 ^ 2.0 ^ 2.0 ^

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
·		Campico	Detections	Detections	Beteeted, ppb	2000, ррь	Lovoi, ppb
Endrin	I	292				20 ^	NT
Beef Adipose Beef Muscle		292 292				20 ^	NT
Esfenvalerate+Fenvalerate Total	1						
Beef Adipose	•	292				4.0 ^	1500
Beef Muscle		292				4.0 ^	1500
Ethalfluralin	Н						
Beef Adipose		292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Ethion	1						
Beef Adipose		292				20 ^	200
Beef Muscle		292				20 ^	200
Ethofumesate	Н						
Beef Adipose		292				16 ^	50
Beef Muscle		292				16 ^	50
Etridiazole	F						
Beef Adipose		292				12 ^	NT
Beef Muscle		292				12 ^	NT
Famoxadone	F						
Beef Adipose		292				40 ^	20
Beef Muscle		292				40 ^	NT
Fenamidone	F						
Beef Adipose		292				20 ^	100
Beef Muscle		292				20 ^	100
Fenarimol	F						
Beef Adipose		292				2.0 ^	10
Beef Muscle		292				2.0 ^	10
Fenitrothion	I						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Fenoxaprop ethyl	Н						
Beef Adipose		292				8.0 ^	50
Beef Muscle		292				8.0 ^	50
Fenpropathrin	I	000				00.4	4000
Beef Adipose		292				20 ^	1000
Beef Muscle		292				20 ^	100
Fenpyroximate	Α	000				0.0.4	00
Beef Adipose		292				8.0 ^	30
Beef Muscle		292				8.0 ^	30
Fenthion	I	202				40.4	N.T
Beef Adipose		292				12 ^ 12 ^	NT NT
Beef Muscle		292				12 ^	NT

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
·		Campico	Detections	Detections	Beteeted, ppb	гово, ррь	Lovei, ppb
Fipronil	I	202				40.4	400
Beef Adipose		292				12 ^	400
Beef Muscle		292				12 ^	40
Flonicamid	I						
Beef Adipose		292				200 ^	30
Beef Muscle		292				200 ^	80
Fluazifop butyl	Н						
Beef Adipose		292				2.0 ^	50
Beef Muscle		292				2.0 ^	50
Flufenoxuron	1						
Beef Adipose		292				30 ^	4500
Beef Muscle		292				30 ^	100
	_						
Fluoxastrobin	F	292				8.0 ^	100
Beef Adipose Beef Muscle		292 292				8.0 ^	50
Beel Muscle		292				6.0 ^	50
Fluroxypyr 1-methylheptyl ester	Н						
Beef Adipose		292				1.0 ^	100
Beef Muscle		292				1.0 ^	100
Flutolanil	F						
Beef Adipose		292				4.0 ^	100
Beef Muscle		292				4.0 ^	50
Fluvalinate	ı						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Heptachlor	1						
Beef Adipose		292				20 ^	NT
Beef Muscle		292				20 ^	NT
	18.4						
Heptachlor epoxide	IM	292				20 ^	NT
Beef Adipose Beef Muscle		292 292				20 ^	NT
Deel Muscle		292				20 ^	INI
Hexachlorobenzene (HCB)	FM						
Beef Adipose (V-5)		292	5	1.7	1.1 - 1.8	1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Hexythiazox	I						
Beef Adipose		292				12 ^	20
Beef Muscle		292				12 ^	NT
3-Hydroxycarbofuran	IM						
Beef Adipose		292				16 ^	NT
Beef Muscle		292				16 ^	NT
Imidacloprid	ı						
Beef Adipose		292				40 ^	300
Beef Muscle		292				40 ^	300

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
	Турс	Gampics	Detections	Detections	Всіссіса, ррь	сова, ррв	Level, ppb
Imiprothrin	I	050				40.4	NIT
Beef Adipose		252				40 ^	NT
Beef Muscle		292				40 ^	NT
Indoxacarb	I						
Beef Adipose		292				50 ^	1500
Beef Muscle		292				50 ^	50
Iprodione	F						
Beef Adipose		292				20 ^	500
Beef Muscle		292				20 ^	500
Isofenphos	1						
Beef Adipose	•	292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
		232				7.∪	INI
Lindane (BHC gamma)	I						
Beef Adipose		292				8.0 ^	7000
Beef Muscle		292				8.0 ^	NT
Linuron	Н						
Beef Adipose		292				20 ^	200
Beef Muscle		292				20 ^	100
Malathion	1						
Beef Adipose		292				4.0 ^	4000
Beef Muscle		292				4.0 ^	4000
Metalaxyl	F						
Beef Adipose	•	292				40 ^	400
Beef Muscle		292				40 ^	50
Methidathion	1						
Beef Adipose	•	292				12 ^	NT
Beef Muscle		292				12 ^	NT
		232				12	INI
Methiocarb	I						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Methomyl	1						
Beef Adipose		292				24 ^	NT
Beef Muscle		292				24 ^	NT
Methoxyfenozide	1						
Beef Adipose		292				8.0 ^	500
Beef Muscle		292				8.0 ^	20
Metolachlor	Н						
Beef Adipose	11	292				8.0 ^	40
Beef Muscle		292				8.0 ^	40
							-
Metribuzin	Н	292				4.0 ^	700
Beef Adipose							
Beef Muscle		292				4.0 ^	700

Particide / Commodity	Pest.	Number of	Samples with	% of Samples with	Range of Values	Range of	EPA Tolerance
Pesticide / Commodity	Туре	Samples	Detections	Detections	Detected, ppb	LODs, ppb	Level, ppb
MGK-264	1						
Beef Adipose		292				20 ^	300
Beef Muscle		292				20 ^	NT
Myclobutanil	F						
Beef Adipose		292				40 ^	50
Beef Muscle		292				40 ^	100
1-Naphthol	IM						
Beef Adipose		292				12 ^	500
Beef Muscle		292				12 ^	1000
Nonachlor cis	IM						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Nonachlor trans	IM						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Norflurazon	Н						
Beef Adipose		292				8.0 ^	100
Beef Muscle		292				8.0 ^	100
Novaluron	1						
Beef Adipose		292				150 ^	11000
Beef Muscle		292				150 ^	600
Oxadiazon	Н						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Oxyfluorfen	Н						
Beef Adipose		292				1.0 ^	10
Beef Muscle		292				1.0 ^	10
Parathion ethyl	1						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Parathion methyl	1						
Beef Adipose		292				4.0 ^	NT
Beef Muscle		292				4.0 ^	NT
Pentachloroaniline (PCA)	FM						
Beef Adipose		292				2.0 ^	NT
Beef Muscle		292				2.0 ^	NT
Pentachlorobenzene (PCB)	FM						
Beef Adipose		292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Permethrin Total	I						
Beef Adipose		292	5	1.7	10 - 27.8	10 ^	1500
Beef Muscle		292				10 ^	100

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb
Phenothrin	ı						
Beef Adipose	·	292				12 ^	NT
Beef Muscle		292				12 ^	NT
Phorate	I						
Beef Adipose		292				12 ^	NT
Beef Muscle		292				12 ^	NT
Phosalone	I						
Beef Adipose		292				12 ^	NT
Beef Muscle		292				12 ^	NT
Phosmet	I						
Beef Adipose		292				12 ^	200
Beef Muscle		292				12 ^	200
Piperonyl butoxide	I						
Beef Adipose		292	1	0.3	10.7 ^	8.0 ^	100
Beef Muscle		292				8.0 ^	100
Prallethrin	1						
Beef Adipose		292				8.0 ^	1000
Beef Muscle		292				8.0 ^	1000
Profenofos	1						
Beef Adipose		292				12 ^	50
Beef Muscle		292				12 ^	50
Pronamide	Н						
Beef Adipose		292				4.0 ^	200
Beef Muscle		292				4.0 ^	20
Propachlor	Н						
Beef Adipose		292				12 ^	50
Beef Muscle		292				12 ^	20
Propanil	Н						
Beef Adipose		292				100 ^	100
Beef Muscle		292				100 ^	50
Propargite	ļ						
Beef Adipose		292				20 ^	100
Beef Muscle		292				20 ^	100
Pyraclostrobin	F						
Beef Adipose		292				60 ^	100
Beef Muscle		292				60 ^	100
Pyrethrins	1						
Beef Adipose		292				40 ^	1000
Beef Muscle		292				40 ^	50
Pyridaben	1						
Beef Adipose		292				4.0 ^	50
Beef Muscle		292				4.0 ^	50

Pesticide / Commodity	Pest. Type	Number of	Samples with Detections	% of Samples with Detections	Range of Values	Range of LODs, ppb	EPA Tolerance
<u> </u>	,	Samples	Detections	Detections	Detected, ppb	LODS, ppb	Level, ppb*
Quintozene (PCNB)	F						
Beef Adipose		292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Quizalofop ethyl	Н						
Beef Adipose		292				4.0 ^	50
Beef Muscle		292				4.0 ^	20
Resmethrin	I						
Beef Adipose		292				12 ^	3000
Beef Muscle		292				12 ^	3000
Simazine	Н						
Beef Adipose	• • •	292				12 ^	NT
Beef Muscle		292				12 ^	30
						· <del>-</del>	30
Spirodiclofen	Α	000				0.04	00
Beef Adipose		292				2.0 ^	20
Beef Muscle		292				2.0 ^	20
Spiromesifen	I						
Beef Adipose		292				20 ^	100
Beef Muscle		292				20 ^	20
Sulprofos	I						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Tebufenozide	1						
Beef Adipose	'	292				10 ^	100
Beef Muscle		292				10 ^	80
<b>-</b>	Н						
Tebuthiuron	П	292				8.0 ^	1000
Beef Adipose Beef Muscle		292 292				8.0 ^	1000
		292				0.0 ^	1000
Tefluthrin	I						
Beef Adipose		292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Tetrachlorvinphos	I						
Beef Adipose		292				8.0 ^	200
Beef Muscle		292				8.0 ^	2000
Tetrahydrophthalimide (THPI)	FM						
Beef Adipose		292				12 ^	150
Beef Muscle		292				12 ^	200
Tetramethrin	1						
Beef Adipose	I	292				10 ^	NT
Beef Muscle		292 292				10 ^	NT
		202				10	141
Thiacloprid	I	<b>-</b>					
Beef Adipose		292				8.0 ^	20
Beef Muscle		292				8.0 ^	30

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Thiamethoxam	I						
Beef Adipose		292				80 ^	NT
Beef Muscle		292				80 ^	20
Thiobencarb	Н						
Beef Adipose		292				40 ^	200
Beef Muscle		292				40 ^	200
Triadimefon	F						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Tridiphane	Н						
Beef Adipose		292				8.0 ^	NT
Beef Muscle		292				8.0 ^	NT
Trifloxystrobin	F						
Beef Adipose		292				4.0 ^	50
Beef Muscle		292				4.0 ^	50
Trifluralin	Н						
Beef Adipose		292				1.0 ^	NT
Beef Muscle		292				1.0 ^	NT
Vinclozolin	F						
Beef Adipose		292				2.0 ^	50
Beef Muscle		292				2.0 ^	50

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 2009 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**

- \* = EPA Tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale.

  There is no intention to imply any more exactness in the value than that originally expressed by EPA.
- ^ = Only one distinct detected concentration or LOD value was reported for the pair.
- NT = No tolerance level was set for that pesticide/commodity pair.
- AL = Numbers shown are Action Levels established by FDA for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.
- (V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.

#### **Pesticide Types:**

- A = Acaricide
- F = Fungicide, FM = Fungicide Metabolite
- H = Herbicide
- I = Insecticide, IM = Insecticide Metabolite

## Appendix E

# Distribution of Residues by Pesticide in Catfish

Appendix E shows residue detections for all compounds tested in catfish, 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 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2009, the Pesticide Data Program (PDP) analyzed 543 catfish samples. PDP detected 41 different residues (including metabolites), representing 30 pesticides, in the catfish samples. The majority of these residue detections are not associated with pesticide applications, but rather are most likely attributable to environmental exposure and are covered by Action Levels (ALs) established by the U.S. Food and Drug Administration (FDA) or by food handling establishment tolerances. Pesticides for which no tolerance was established in fish or catfish are likely to be present in water; EPA is addressing these issues under environmental impact assessments. For these reasons, catfish residue results, along with results from groundwater and drinking water, are excluded when providing overall residue counts.

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

EPA tolerances as published in 40 CFR Part 180 are expressed in parts per million (ppm). Because catfish residues are expressed in parts per billion (ppb), EPA tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

# APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN CATFISH

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Acetamiprid	1	543				16 ^	NA
Acetochlor	Н	543	2	0.4	7.7 - 8.8	3.0 - 6.0	NA
Alachlor	Н	543				5.0 - 10	NA
Aldicarb	1	543				25 ^	NA
Aldicarb sulfone	IM	543				10 ^	NA
Aldrin	1	543				5.0 ^	300 AL
Allethrin	1	543				5.0 ^	NA
Atrazine	Н	543	4	0.7	2.5 - 17.9	2.0 ^	NA
Azinphos methyl	1	543				2.0 ^	NA
Azoxystrobin	F	543				1.0 ^	NA
Benfluralin	Н	543				1.0 ^	NA
BHC alpha	1	543	6	1.1	1.2 - 5.7	1.0 ^	NA
BHC beta	IM	543				5.0 ^	NA
BHC delta	IM	543	1	0.2	4.0 ^	1.0 ^	NA
Bifenazate	А	543				10 - 20	NA
Bifenox	Н	543				3.0 - 12	NA
Bifenthrin	1	543	88	16.2	1.0 - 6.3	1.0 ^	50
Boscalid	F	543				3.0 - 6.0	NA
Bromuconazole	F	543				5.0 - 20	NA
Buprofezin	1	543				5.0 - 20	NA
Butralin	Н	543				2.0 - 6.0	NA
Butylate	Н	543				2.0 - 4.0	NA
Captan	F	543				5.0 ^	NA
Carbaryl	1	543				5.0 ^	NA
Carbofuran	1	543				2.0 ^	NA
Carbophenothion	1	543				1.0 ^	NA
Carfentrazone ethyl	Н	521				1.0 ^	300
Chlordane cis	1	543	2	0.4	1.1 - 1.4	1.0 ^	300 AL
Chlordane trans	1	543	1	0.2	1.2 ^	1.0 ^	300 AL
Chlorethoxyfos	1	543				1.0 ^	NA
Chlorfenapyr	1	543				1.0 ^	10
Chlorobenzilate	А	543				5.0 ^	NA
Chloroxuron	Н	543				8.0 ^	NA
Chlorpropham	Н	543				10 - 20	NA
Chlorpyrifos	1	543	30	5.5	1.0 - 38.2	1.0 ^	100
Chlorpyrifos methyl	1	543	8	1.5	1.0 - 1.5	1.0 ^	NA
Clofentezine	1	543				6.0 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Clomazone	H	543			,,,,	3.0 ^	NA
Clothianidin	 I	543				10 ^	NA
Coumaphos	·	543				1.0 ^	NA
Cyfluthrin	İ	543				1.0 ^	50
Cyhalothrin, Total (Cyhalothrin-L + R157836		0.0					00
epimer)	I	543	5	0.9	1.0 - 7.8	1.0 ^	10
Cypermethrin	I	543	10	1.8	1.1 - 3.5	1.0 ^	50
Cyphenothrin	1	543	1	0.2	38.7 ^	5.0 - 20	NA
Cyprodinil	F	543				3.0 ^	NA
DCPA	Н	543				1.0 ^	NA
DDD o,p'	IM	543	45	8.3	1.0 - 36	1.0 - 2.0	5000 AL
DDD p,p'	IM	543	162	29.8	1.0 - 115	1.0 - 2.0	5000 AL
DDE o,p'	IM	543	15	2.8	1.0 - 11.9	1.0 - 2.0	5000 AL
DDE p,p'	IM	543	353	65.0	1.0 - 2310	1.0 - 2.0	5000 AL
DDT p,p'	I	543	3	0.6	2.1 - 7.0	2.0 - 4.0	5000 AL
Deltamethrin (includes parent Tralomethrin)	I	543				10 ^	50
Diazinon	I	543				1.0 ^	NA
Dichlorvos (DDVP)	I	543				3.0 - 9.0	500
Diclofop methyl	Н	543				1.0 - 2.0	NA
Dicloran	F	543				1.0 ^	NA
Dicofol p,p'	ı	543	5	0.9	1.1 - 3.1	1.0 ^	NA
Dieldrin	I	543	6	1.1	5.7 - 29.2	5.0 ^	300 AL
Difenoconazole	F	543				3.0 - 12	NA
Diflubenzuron	I	543				13 ^	NA
Dimethenamid	Н	543				3.0 - 6.0	NA
Dimethoate	ı	543				4.0 ^	NA
Dimethomorph	F	543				5.0 ^	NA
2,4-dimethylphenyl formamide (2,4-DMPF)	IM	543				2.0 - 8.0	NA
Dinitramine	Н	543				1.0 ^	NA
Dinotefuran	I	543				13 ^	NA
Diphenamid	Н	543				1.0 ^	NA
Diphenylamine (DPA)	F	543	7	1.3	1.1 - 2.4	1.0 - 2.0	NA
Disulfoton	ı	543				5.0 ^	NA
Diuron	Н	543	38	7.0	16.1 - 179	16 ^	2000
Endosulfan I	I	543	7	1.3	1.1 - 2.6	1.0 ^	NA
Endosulfan II	IM	543	2	0.4	1.1 - 3.8	1.0 ^	NA
Endosulfan sulfate	IM	543	32	5.9	1.0 - 25.4	1.0 ^	NA
Endrin	1	543				5.0 ^	NA
EPN	1	543				1.0 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Epoxiconazole	F	543				1.0 ^	NA
Esfenvalerate+Fenvalerate Total	1	543	9	1.7	1.0 - 8.9	1.0 ^	50
Ethalfluralin	Н	543				1.0 ^	NA
Ethofumesate	Н	543				4.0 ^	NA
Etoxazole	Α	543				1.0 ^	NA
Etridiazole	F	543				3.0 - 6.0	NA
Famoxadone	F	543				10 - 20	NA
Fenamidone	F	543				3.0 ^	NA
Fenamiphos	1	543				2.0 ^	NA
Fenarimol	F	543				1.0 ^	NA
Fenbuconazole	F	543				4.0 ^	NA
Fenhexamid	F	543				2.0 ^	NA
Fenitrothion	1	543				1.0 ^	NA
Fenoxaprop ethyl	Н	543				2.0 - 4.0	NA
Fenoxycarb	1	543				10 ^	NA
Fenpropathrin	1	543				5.0 - 20	NA
Fenpyroximate	Α	543				2.0 ^	NA
Fenthion	1	543				3.0 - 9.0	NA
Fipronil	1	543				3.0 - 9.0	NA
Fluazifop butyl	Н	543				1.0 - 2.0	NA
Fluchloralin	Н	543				2.0 - 6.0	NA
Flucythrinate	1	543				5.0 - 20	NA
Flumetralin	Р	543				1.0 ^	NA
Flumiclorac pentyl	Н	543				3.0 - 6.0	NA
Fluoxastrobin	F	543				2.0 ^	NA
Fluridone	Н	543				5.0 - 10	500
Fluroxypyr 1-methylheptyl ester	Н	521				1.0 ^	NA
Fluvalinate	1	543				1.0 ^	NA
Heptachlor	1	543				5.0 ^	300 AL
Heptachlor epoxide	IM	543				5.0 ^	300 AL
Hexachlorobenzene (HCB)	FM	543	2	0.4	1.8 - 3.3	1.0 ^	NA
Hydroprene	R	543				3.0 - 12	200
3-Hydroxycarbofuran	IM	543				4.0 ^	NA
Imidacloprid	I	543				10 ^	NA
Imiprothrin	1	543				10 - 30	NA
Indoxacarb	I	543				13 ^	NA
Iprodione	F	543				5.0 ^	NA
Isopropalin	Н	543				2.0 - 10	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Isoxaflutole	Н	543				3.0 - 30	NA
Lactofen	Н	543				3.0 - 6.0	NA
Lindane (BHC gamma)	ı	543	2	0.4	2.2 - 3.1	2.0 ^	NA
Linuron	Н	543				5.0 ^	NA
Malathion	1	543				1.0 ^	NA
Metalaxyl	F	543				2.0 ^	NA
Methidathion	I	543				3.0 ^	NA
Methomyl	ı	543				6.0 ^	NA
Methoxychlor p,p'	IM	543				2.0 - 6.0	NA
Methoxyfenozide	ı	543				2.0 ^	NA
Metolachlor	Н	543				2.0 - 4.0	NA
Metribuzin	Н	543				1.0 ^	NA
Mevinphos Total	I	543				10 ^	NA
MGK-264	1	543	1	0.2	16 ^	5.0 - 15	NA
MGK-326 (dipropyl isocinchomeronate)	1	543				3.0 - 6.0	NA
Mirex	1	543				2.0 ^	NA
Myclobutanil	F	543				10 ^	NA
1-Naphthol	IM	543				3.0 - 6.0	NA
Nitrofen	Н	543				1.0 ^	NA
Nonachlor cis	IM	543	1	0.2	1.0 ^	1.0 ^	NA
Nonachlor trans	IM	543	2	0.4	1.1 - 3.1	1.0 ^	NA
Norflurazon	Н	543				2.0 ^	NA
Oxadiazon	Н	543	1	0.2	2.3 ^	2.0 ^	NA
Oxamyl	1	543				6.0 ^	NA
Oxamyl oxime	IM	543				16 ^	NA
Oxychlordane	IM	543				2.0 ^	300 AL
Oxyfluorfen	Н	543				1.0 ^	NA
Parathion ethyl	1	543	1	0.2	2.3 ^	2.0 ^	NA
Parathion methyl	1	543				1.0 ^	NA
Pendimethalin	Н	543	7	1.3	2.1 - 13.4	2.0 ^	NA
Pentachloroaniline (PCA)	FM	543	6	1.1	1.0 - 8.3	1.0 ^	NA
Permethrin Total	1	543				3.0 ^	NA
Phenmedipham	Н	543				13 ^	NA
Phenothrin	1	543				3.0 - 12	NT
Phorate	1	543				3.0 - 12	NA
Phosalone	1	543				3.0 - 12	NA
Phosmet	1	543				3.0 ^	NA
Piperonyl butoxide	1	543	3	0.6	2.1 - 83.6	2.0 - 8.0	NA

Primiphos methyl         I         543         3         0.6         4.0 - 22.9         1.0 - 3.0         NA           Prallethrin         I         543         1         0.2         2.5 ^         2.0 ^         1000           Prodamine         H         543         1         0.2         2.5 ^         2.0 ^         NA           Propachlor         H         543         1         0.2         32.8 ^         5.0 - 10         NA           Propargite         I         543         1         0.2         32.8 ^         5.0 - 10         NA           Propazine         H         543         1         0.2         32.8 ^         5.0 - 10         NA           Propetamphos         I         543         1         0.2         32.8 ^         5.0 - 10         NA           Propetamphos         I         543         1         0.2         32.8 ^         5.0 - 10         NA           Propetamphos         I         543         1         4         50         NA           Propoxur         I         543         1         4         10 - 3         NA           Pyraclostrobin         F         543         1         4	Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Prodiamine         H         543         1.0 - 3.0         NA           Propachlor         H         543         1.0 ^ NA         NA           Propachlor         H         543         1.0 2 32.8 ^ S.0 - 10         NA           Propadine         H         543         1 0.2 32.8 ^ S.0 - 10         NA           Propatame         H         543         1.0 - 10         100         100           Propham         H         543         3.0 - 9.0         NA         NA         Propiconazole         F         543         3.0 - 9.0         NA         Propiconazole         F         543         4.0 ^ NA         NA         Propiconazole         F         543         4.0 ^ NA         NA         Propiconazole         F         543         4.0 ^ NA         NA         Pyridaben         F         543         4.0 ^ NA         NA         Pyridaben         F         543         4.0 ^ NA         NA         Pyridaben         F         543         4.0 ^ NA         NA         Pyrimethanil	Pirimiphos methyl	I	543	3	0.6	4.0 - 22.9	1.0 - 3.0	NA
Propachlor         H         543          1.0.°         NA           Propachlor         H         543          32.8.°         50.10         NA           Propagine         I         543         1         0.2         32.8.°         50.10         NA           Propetamphos         I         543          10.0.10         100           Propham         H         543          30.9.00         NA           Propoxur         I         543          30.9.00         NA           Propoxur         I         543          10.0.1         100           Pyraclostrobin         I         543          10.0.4         NA           Pyrachinis         I         543          10.0.4         NA           Pyrachinin         I         543          10.0.4         NA           Pyrachinin         I         543          10.0.4         NA           Pyridaben         I         543          10.0.4         NA           Pyridaben         I         543          10.0.4         NA	Prallethrin	1	543	1	0.2	2.5 ^	2.0 ^	1000
Propachlor         H         543         1         0.2         32.8 ^         5.0 - 10         NA           Propazire         H         543         1         0.2         32.8 ^         5.0 - 10         NA           Propazire         H         543         -         -         1.0 - 10         100           Propetamphos         H         543         -         -         5.0 ^         NA           Propetamphos         F         543         -         -         5.0 ^         NA           Propham         H         543         -         -         5.0 ^         NA           Propiconazole         F         543         -         -         2.5 ^         NA           Propoxur         I         543         -         -         1.0 ^         NA           Pyrathrins         I         543         -         -         1.0 ^         NA           Pyridaben         J         543         -         -         1.0 ^         NA           Pyridaben         F         543         -         -         1.0 ^         NA           Quintozene (PCNB)         F         543         -         -         1.	Prodiamine	Н	543				1.0 - 3.0	NA
Propagitie         I         543         1         0.2         32.8^*         5.0-10         NA           Propazine         H         543         -         -         1.0^*         NA           Propatamphos         I         543         -         -         1.0-10         100           Propham         H         543         -         -         3.0-9.0         NA           Propiconazole         F         543         -         -         15^*         NA           Propoxur         I         543         -         -         15^*         NA           Pyraclostrobin         F         543         -         -         10^*         100^*         NA           Pyridaben         I         543         -         -         10^*         NA         100^*         NA           Pyridaben         F         543         -         -         10^*         NA         100^*         NA           Pyridaben         F         543         -         -         10^*         NA         100^*         NA         100^*         NA         100^*         NA         100^*         NA         100^*         NA         100^*	Pronamide	Н	543				1.0 ^	NA
Propazine         H         543         1.0 ° M         NA           Propetamphos         I         543         1.0 ° M         10 ° M           Propham         H         543         5.0 ° M         NA           Propicionazole         F         543         5.0 ° M         NA           Propoxur         I         543         5.0 ° M         NA           Pyraclostrobin         F         543         6 ° M         10 ° M         1000           Pyridaben         I         543         6 ° M         10 ° M         1000         NA           Pyridaben         I         543         6 ° M         10 ° M         NA         1000         NA         NA           Pyridaben         I         543         6 ° M         10 ° M         NA         1000         NA         NA	Propachlor	Н	543				3.0 - 12	NA
Propetamphos         1         543         1.0-10         10-10         10-10         170-10	Propargite	1	543	1	0.2	32.8 ^	5.0 - 10	NA
Propham         H         543         5.0 ^         NA           Propiconazole         F         543         3.0 - 9.0         NA           Propoxur         I         543         25 ^         NA           Pyraclostrobin         F         543         15 ^         NA           Pyridaben         I         543         10 ^         NA           Pyridaben         I         543         4.0 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Quintozene (PCNB)         F         521         1.0 ^         NA           Resmethrin         I         543         3.0 - 8.0         3000           Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         1.0 ^         NA           Sipiodicofen         A         543         1.0 ^         NA           Spirodicofen         H         543         1.0 ^         NA           Sulprofos         I         543         1.0 ^         NA           Tebufenozide         I         543 </td <td>Propazine</td> <td>Н</td> <td>543</td> <td></td> <td></td> <td></td> <td>1.0 ^</td> <td>NA</td>	Propazine	Н	543				1.0 ^	NA
Propiconazole         F         543         30 - 9.0         NA           Propoxur         I         543         25 ^         NA           Pyraclostrobin         F         543         15 ^         NA           Pyraclostrobin         F         543         10 ^         1000           Pyridaben         I         543         10 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Resmethrin         I         543         3.0 - 8.0         3000           Sethoxydim         H         543         2.0 ^         NA           Spirodiclofen         A         543         3.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spirodiclofen         A         543         2.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Tebufrinosid         I         543         1.0 ^         NA           Tebufrenozide         I	Propetamphos	1	543				1.0 - 10	100
Propoxur         I         543         15^ NA         NA         Pyraclostrobin         F         543         15^ NA         NA         Pyrethrins         10 ^ 1000         1000         Portal daben         10 ^ 1000         NA         1000         Portal daben         10 ^ 1000         NA         NA         Pyrimethanil         F         543          10 ^ 1000         NA         NA         NA         NA         Quintozene (PCNB)         F         543          10 ^ 0 NA         NA         NA         NA         Suproductione         10 ^ 0 NA         NA         Suproductione         10 ^ 0 NA         NA         Suprodicofen         NA	Propham	Н	543				5.0 ^	NA
Pyraclostrobin         F         543         15 ^         NA           Pyrethrins         1         543         10 ^         1000           Pyridaben         1         543         1.0 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Quintozene (PCNB)         F         521         1.0 ^         NA           Resmethrin         1         543         2.0 ^         NA           Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         2.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         2.0 - 8.0         NA           Tebufurin         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 - 8.0         NA           Tetruthrin         I         543         2.0 - 8.0         NA <td< td=""><td>Propiconazole</td><td>F</td><td>543</td><td></td><td></td><td></td><td>3.0 - 9.0</td><td>NA</td></td<>	Propiconazole	F	543				3.0 - 9.0	NA
Pyrethrins         I         543         10 ^         100^         NA           Pyridaben         I         543         1.0 ^         NA           Pyrimethanil         F         543         4.0 ^         NA           Quintozene (PCNB)         F         521         1.0 ^         NA           Resmethrin         I         543         2.0 ^         NA           Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         1.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         1.0 - 3.0         NA           Tebufurin         I         543         1.0 - 3.0         NA           Tebufurin         I         543         1.0 - 3.0         NA           Templos         I         543         2.0 - 3.0	Propoxur	1	543				25 ^	NA
Pyridaben         I         543         I.0^         NA           Pyrimethanil         F         543         4.0^         NA           Quintozene (PCNB)         F         521         1.0^         NA           Resmethrin         I         543         2.0^         NA           Sethoxydim         H         543         2.0^         NA           Simazine         H         543         3.0^         NA           Spirodiclofen         A         543         1.0^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0^         NA           Sulprofos         I         543         2.0^         NA           Tebufenozide         I         543         1.0^         NA           Tebuthirron         H         543         1.0^         NA           Tempelytos         I         543         1.0^         NA           Tempelytos         I         543         2.0^         NA           Tetrachloryinphos         I         543         2.0^         NA <td< td=""><td>Pyraclostrobin</td><td>F</td><td>543</td><td></td><td></td><td></td><td>15 ^</td><td>NA</td></td<>	Pyraclostrobin	F	543				15 ^	NA
Pyrimethanil         F         543         4.0 ^         NA           Quintozene (PCNB)         F         521         1.0 ^         NA           Resmethrin         I         543         2.0 ^         NA           Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         3.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         2.0 - 8.0         NA           Tebupirimfos         I         543         2.0 - 8.0         NA           Tebupirimfos         I         543         2.0 - 8.0         NA           Templotos         I         543         2.0 - 8.0         NA           Templotos         I         543         2.0 - 8.0         NA           Templotos         I         543         1.0 - 9.0	Pyrethrins	1	543				10 ^	1000
Quintozene (PCNB)         F         521         1.0 ^         NA           Resmethrin         1         543         3.0 - 8.0         3000           Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         1.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         1         543         2.0 - 8.0         NA           Sulprofos         1         543         2.0 - 8.0         NA           Tebufenozide         1         543         2.0 - 8.0         NA           Tebufinfos         1         543         2.0 - 8.0         NA           Tebuthiuron         H         543         2.0 - 8.0         NA           Temphos         1         543         2.0 - 8.0         NA           Temphos         1         543         2.0 - 8.0         NA           Temphos         1         543         2.0 - 8.0         NA           Tetrachlorvinphos         1         543         2.0 - 8.0         NA           Tetrachlorion         1         543         1         0.2         2.0 - 8	Pyridaben	1	543				1.0 ^	NA
Resmethrin         I         543         30 - 8.0         300 - 8.0         300 - 8.0         300 - 8.0         300 - 8.0         NA         Sethoxydim         H         543         2.0 ^ NA         NA         Simazine         H         543         1.0 ^ NA         NA         Spirodiclofen         A         543         1.0 ^ NA         NA         Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA         NA         Sulprofos         I         543         2.0 - 8.0         NA         NA         Spiromesifen Total (parent + enol metabolite)         I         543         2.0 - 8.0         NA         NA         Sulprofos         I	Pyrimethanil	F	543				4.0 ^	NA
Sethoxydim         H         543         2.0 ^         NA           Simazine         H         543         3.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         2.0 -8.0         NA           Sulprofos         I         543         2.0 -8.0         NA           Tebufenozide         I         543         2.0 -8.0         NA           Tefutfultrin         I         543         2.0 -8.0         NA           Temephos         I         543         2.0 -8.0         NA           Tetrachlorvinphos         I         543         1.0 -2.0         NA           Tetrachlorvinphos         I         543         1.0 -2.0         NA           Tetrachlorvinphos         I         543         1.0 -2.0         NA	Quintozene (PCNB)	F	521				1.0 ^	NA
Simazine         H         543         3.0 ^         NA           Spirodiclofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         5.0 ^         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         1.0 - 3.0         NA           Tebuprimfos         I         543         2.0 ^         NA           Tebuthiuron         H         543         2.0 ^         NA           Tefluthrin         I         543         4.0 ^         NA           Temephos         I         543         2.0 ^         NA           Tetrabufos         I         543         2.0 ^         NA           Tetrachlorvinphos         I         543         2.0 ^         NA           Tetrachlorvinphos         I         543         1         0.2         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         NA           Tetradifon	Resmethrin	1	543				3.0 - 8.0	3000
Spirodictofen         A         543         1.0 ^         NA           Spiromesifen Total (parent + enol metabolite)         I         543         5.0 ^         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         2.0 - 8.0         NA           Tebupirimfos         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 ^         NA           Temephos         I         543         4.0 ^         NA           Temephos         I         543         4.0 ^         NA           Tetrachlorvinphos         I         543         1         0.2         2.0 ^         NA           Tetraconazole         F         543         1         0.2         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         2.0 ^         NA           Tetr	Sethoxydim	Н	543				2.0 ^	NA
Spiromesifen Total (parent + enol metabolite)         I         543         5.0 ^         NA           Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         25 ^         NA           Tebupirimfos         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 ^         NA           Tefluthrin         I         543         1.0 ^         NA           Temephos         I         543         4.0 ^         NA           Terbufos         I         543         2.0 ^         NA           Tetrachlorvinphos         I         543         1.0 2         2.0 ^         NA           Tetraconazole         F         543         1.0 2         2.0 ^         NA           Tetradifon         I         543         1.0 2         2.0 ^         NA           Tetradydrophthalimide (THPI)         FM         543         1.0 2         2.0 ^         NA           Tetramethrin         I         543         2.0 ^         NA           Thiacloprid         I         543         2.0 ^         NA           Thiamethoxam         I	Simazine	Н	543				3.0 ^	NA
Sulprofos         I         543         2.0 - 8.0         NA           Tebufenozide         I         543         25 ^ NA         NA           Tebupirimfos         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 ^ NA         NA           Tefluthrin         I         543         4.0 ^ NA         NA           Temephos         I         543         4.0 ^ NA         NA           Terbufos         I         543         2.0 ^ NA         NA           Tetrachlorvinphos         I         543         2.0 ^ NA         NA           Tetraconazole         F         543         1         0.2         2.0 ^ NA         NA           Tetradifon         I         543         1         0.2         2.0 ^ NA         NA           Tetrahydrophthalimide (THPI)         FM         543         12 - 24         NA           Tetramethrin         I         543         2.0 ^ NA         NA           Thiacloprid         I         543         2.0 ^ NA         NA           Thiobencarb         H         543         50 ^ NA         NA	Spirodiclofen	Α	543				1.0 ^	NA
Tebufenozide         I         543         25^         NA           Tebupirimfos         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 ^         NA           Tefluthrin         I         543         4.0 ^         NA           Temephos         I         543         4.0 ^         NA           Terbufos         I         543         2.0 ^         NA           Tetrachlorvinphos         I         543         2.0 ^         NA           Tetraconazole         F         543         1         0.2         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         NA           Tetrahydrophthalimide (THPI)         FM         543         1         0.2         2.0 ^         NA           Tetramethrin         I         543         3.0 ^         NA           Thiacloprid         I         543         2.0 ^         NA           Thiamethoxam         I         543         2.0 ^         NA           Thiobencarb         H         543         50 ^         NA	Spiromesifen Total (parent + enol metabolite)	I	543				5.0 ^	NA
Tebupirimfos         I         543         1.0 - 3.0         NA           Tebuthiuron         H         543         2.0 ^         NA           Tefluthrin         I         543         1.0 ^         NA           Temephos         I         543         4.0 ^         NA           Terbufos         I         543         2.0 ^         NA           Tetrachlorvinphos         I         543         2.0 ^         NA           Tetraconazole         F         543         1         0.2         2.0 ^         2.0 ^         NA           Tetradifon         I         543         1.0 ^         NA         1         7         NA         1         NA         1         NA         1         1         NA	Sulprofos	1	543				2.0 - 8.0	NA
Tebuthiuron         H         543         2.0 ^         NA           Tefluthrin         I         543         1.0 ^         NA           Temephos         I         543         4.0 ^         NA           Terbufos         I         543         5.0 ^         NA           Tetrachlorvinphos         I         543         2.0 ^         NA           Tetraconazole         F         543         1         0.2         2.0 ^         NA           Tetradifon         I         543         1.0 ^         NA           Tetrahydrophthalimide (THPI)         FM         543         12 - 24         NA           Tetramethrin         I         543         3.0 ^         NA           Thiacloprid         I         543         2.0 ^         NA           Thiamethoxam         I         543         20 ^         NA           Thiobencarb         H         543         10 - 20         NA           Thiodicarb         I         543         50 ^         NA	Tebufenozide	1	543				25 ^	NA
Tefluthrin       I       543       1.0 ^ NA         Temephos       I       543       4.0 ^ NA         Terbufos       I       543       5.0 ^ NA         Tetrachlorvinphos       I       543       2.0 ^ NA         Tetraconazole       F       543       1       0.2       2.0 ^ NA       NA         Tetradifon       I       543       1       1.0 ^ NA       NA         Tetrahydrophthalimide (THPI)       FM       543       12 - 24       NA         Tetramethrin       I       543       3.0 ^ NA       NA         Thiacloprid       I       543       2.0 ^ NA       NA         Thiamethoxam       I       543       20 ^ NA       NA         Thiobencarb       H       543       50 ^ NA       NA	Tebupirimfos	1	543				1.0 - 3.0	NA
Temephos       I       543       4.0 ^ NA         Terbufos       I       543       5.0 ^ NA         Tetrachlorvinphos       I       543       2.0 ^ NA         Tetraconazole       F       543       1       0.2       2.0 ^ 2.0 ^ NA         Tetradifon       I       543       1.0 ^ NA       NA         Tetrahydrophthalimide (THPI)       FM       543       12 - 24       NA         Tetramethrin       I       543       3.0 ^ NA       NA         Thiacloprid       I       543       2.0 ^ NA       NA         Thiamethoxam       I       543       20 ^ NA       NA         Thiobencarb       H       543       50 ^ NA       NA	Tebuthiuron	Н	543				2.0 ^	NA
Terbufos       I       543       5.0 ^       NA         Tetrachlorvinphos       I       543       2.0 ^       NA         Tetraconazole       F       543       1       0.2       2.0 ^       2.0 ^       NA         Tetradifon       I       543       1.0 ^       NA         Tetrahydrophthalimide (THPI)       FM       543       12 - 24       NA         Tetramethrin       I       543       2.0 ^       NA         Thiacloprid       I       543       2.0 ^       NA         Thiamethoxam       I       543       20 ^       NA         Thiobencarb       H       543       50 ^       NA         Thiodicarb       I       543       50 ^       NA	Tefluthrin	1	543				1.0 ^	NA
Tetrachlorvinphos         I         543         1         0.2         2.0 ^         NA           Tetraconazole         F         543         1         0.2         2.0 ^         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         NA         NA           Tetradifon         I         543         12 - 24         NA         NA         NA         Tetramethrin         I         543         2.0 ^         NA         NA         NA         Thiacloprid         I         543         2.0 ^         NA         NA         NA         Thiamethoxam         I         543         10 - 20         NA         NA         Thiodicarb         I         543         50 ^         NA         <	Temephos	1	543				4.0 ^	NA
Tetraconazole         F         543         1         0.2         2.0 ^         2.0 ^         NA           Tetradifon         I         543         1         0.2         2.0 ^         2.0 ^         NA           Tetrahydrophthalimide (THPI)         FM         543         12 - 24         NA           Tetramethrin         I         543         2.0 ^         NA           Thiacloprid         I         543         2.0 ^         NA           Thiamethoxam         I         543         20 ^         NA           Thiobencarb         H         543         10 - 20         NA           Thiodicarb         I         543         50 ^         NA	Terbufos	1	543				5.0 ^	NA
Tetradifon       I       543       1.0 ^       NA         Tetrahydrophthalimide (THPI)       FM       543       12 - 24       NA         Tetramethrin       I       543       3.0 ^       NA         Thiacloprid       I       543       2.0 ^       NA         Thiamethoxam       I       543       20 ^       NA         Thiobencarb       H       543       10 - 20       NA         Thiodicarb       I       543       50 ^       NA	Tetrachlorvinphos	1	543				2.0 ^	NA
Tetrahydrophthalimide (THPI)       FM       543       12 - 24       NA         Tetramethrin       I       543       3.0 ^       NA         Thiacloprid       I       543       2.0 ^       NA         Thiamethoxam       I       543       20 ^       NA         Thiobencarb       H       543       10 - 20       NA         Thiodicarb       I       543       50 ^       NA	Tetraconazole	F	543	1	0.2	2.0 ^	2.0 ^	NA
Tetramethrin         I         543         3.0 ^ NA           Thiacloprid         I         543         2.0 ^ NA           Thiamethoxam         I         543         20 ^ NA           Thiobencarb         H         543         10 - 20 NA           Thiodicarb         I         543         50 ^ NA	Tetradifon	1	543				1.0 ^	NA
Thiacloprid         I         543         2.0 ^ NA           Thiamethoxam         I         543         20 ^ NA           Thiobencarb         H         543         10 - 20 NA           Thiodicarb         I         543         50 ^ NA	Tetrahydrophthalimide (THPI)	FM	543				12 - 24	NA
Thiamethoxam         I         543         20 ^         NA           Thiobencarb         H         543         10 - 20         NA           Thiodicarb         I         543         50 ^         NA	Tetramethrin	1	543				3.0 ^	NA
Thiobencarb         H         543         10 - 20         NA           Thiodicarb         I         543         50 ^         NA	Thiacloprid	1	543				2.0 ^	NA
Thiodicarb I 543 50 ^ NA	Thiamethoxam	1	543				20 ^	NA
	Thiobencarb	Н	543				10 - 20	NA
Tolclofos methyl F 543 3.0 ^ NA	Thiodicarb	1	543				50 ^	NA
	Tolclofos methyl	F	543				3.0 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*
Toxaphene	I	543	35	6.4	50 - 461	50 ^	NA
Tri Allate	Н	543				2.0 - 6.0	NA
Triadimefon	F	543				2.0 ^	NA
Tridiphane	Н	543				2.0 - 12	NA
Trifluralin	Н	543	8	1.5	1.4 - 80.5	1.0 ^	NA
Triticonazole	F	543				3.0 - 9.0	NA
Vinclozolin	F	543				1.0 ^	NA

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2009 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**

- \* = EPA tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale.

  There is no intention to imply any more exactness in the value than that originally expressed by EPA.
- ^ = Only one distinct detected concentration or LOD value was reported for the pair.
- NA = Findings in catfish are covered by tolerances established for fish, by tolerances set for pesticide uses in food handling establishments, and by action levels set for persistent chemicals commonly found in the environment. In addition, there are other findings that may arise from a number of attributable sources including runoff from agricultural uses to water sources or ponds. For the latter group, where no specific tolerance has been established, "NA" has been entered as the tolerance value.
- AL = Numbers shown are Action Levels established by FDA for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

### Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

P = Plant Growth Regulator

R = Insect Growth Regulator

## **Appendix F**

## Distribution of Residues by Pesticide in Groundwater

Appendix F shows residue detections for all compounds tested in groundwater, including range of values detected and range of Limits of Detection (LODs) for each pair in parts per trillion (ppt).

In 2009, the Pesticide Data Program (PDP) analyzed 278 groundwater samples from 278 different collection sites, including 95 from agricultural wells, 113 from school/daycare wells, and 70 from private residential wells. PDP detected 29 different residues (including metabolites), representing 19 pesticides, in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from 152 different sites.

## APPENDIX F. DISTRIBUTION OF RESIDUES BY PESTICIDE IN GROUNDWATER

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
2,4-D	Н	0.5				0.5.4
Groundwater - Agricultural/Farm Wells		95 <b>7</b> 0	•	0.0	404	2.5 ^
Groundwater - Private Residence Wells		70	2	2.9	4.2 ^	2.5 ^
Groundwater - School/Daycare Wells		113	6	5.3	4.2 - 24.9	2.5 ^
2,4-DB	Н					
Groundwater - Agricultural/Farm Wells		95				4.0 ^
Groundwater - Private Residence Wells		70				4.0 ^
Groundwater - School/Daycare Wells		113				4.0 ^
Acetochlor	Н					
Groundwater - Agricultural/Farm Wells		95				10 ^
Groundwater - Private Residence Wells		70				10 ^
Groundwater - School/Daycare Wells		113				10 ^
•	1.15.4					
Acetochlor ethanesulfonic acid (ESA)	HM	05	4	4.0	45 570	0.04
Groundwater - Agricultural/Farm Wells		95 70	4	4.2	15 - 57.3	9.0 ^
Groundwater - Private Residence Wells		70	30	42.9	15 - 600	9.0 ^
Groundwater - School/Daycare Wells		113	4	3.5	15 - 91.2	9.0 ^
Acetochlor oxanilic acid (OA)	HM					
Groundwater - Agricultural/Farm Wells		95				10 ^
Groundwater - Private Residence Wells		70	6	8.6	17 - 63.9	10 ^
Groundwater - School/Daycare Wells		113	2	1.8	17 - 46	10 ^
Alachlor	Н					
Groundwater - Agricultural/Farm Wells		95	1	1.1	17 ^	10 ^
Groundwater - Private Residence Wells		70				10 ^
Groundwater - School/Daycare Wells		113				10 ^
Alachlor ethanesulfonic acid (ESA)	НМ					
Groundwater - Agricultural/Farm Wells	I IIVI	95	21	22.1	20.8 - 3920	12.5 ^
Groundwater - Private Residence Wells		70	52	74.3	20.8 - 2630	12.5 ^
Groundwater - School/Daycare Wells		113	18	15.9	20.8 - 294	12.5 ^
	1.18.4					
Alachlor oxanilic acid (OA)	HM	05	10	10.0	17 2000	10.4
Groundwater - Agricultural/Farm Wells		95 70	18 15	18.9	17 - 3900	10 ^
Groundwater - Private Residence Wells		70 112	15 2	21.4	17 - 2160	10 ^
Groundwater - School/Daycare Wells		113	3	2.7	17 - 80.3	10 ^
Atrazine	Н					
Groundwater - Agricultural/Farm Wells		95				10 ^
Groundwater - Private Residence Wells		70	32	45.7	17 - 172	10 ^
Groundwater - School/Daycare Wells		113	3	2.7	17 - 231	10 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
		Samples	Detections	Detects	Detected, ppt	LODS, ppt
Bensulfuron methyl	Н	05				F 0 A
Groundwater - Agricultural/Farm Wells		95 <b>7</b> 0				5.0 ^
Groundwater - Private Residence Wells		70				5.0 ^
Groundwater - School/Daycare Wells		113				5.0 ^
Bentazon	Н					
Groundwater - Agricultural/Farm Wells		6	6	100	0.30 - 19.3	0.30 ^
Groundwater - Private Residence Wells		2	2	100	0.53 - 2.2	0.30 ^
Boscalid	F					
Groundwater - Agricultural/Farm Wells		95				100 ^
Groundwater - Private Residence Wells		70				100 ^
Groundwater - School/Daycare Wells		113				100 ^
Bromacil	Н					
Groundwater - Agricultural/Farm Wells	11	95	19	20.0	6.2 - 21800	6.0 ^
Groundwater - Private Residence Wells		70	2	2.9	10 - 50.2	6.0 ^
Groundwater - School/Daycare Wells		113	2	2.3	10 - 30.2	6.0 ^
		113				0.0
Carbaryl	I					
Groundwater - Agricultural/Farm Wells		95				7.5 ^
Groundwater - Private Residence Wells		70				7.5 ^
Groundwater - School/Daycare Wells		113				7.5 ^
Carbofuran	I					
Groundwater - Agricultural/Farm Wells		95				4.0 ^
Groundwater - Private Residence Wells		70				4.0 ^
Groundwater - School/Daycare Wells		113				4.0 ^
Chlorimuron ethyl	Н					
Groundwater - Agricultural/Farm Wells		95				6.0 ^
Groundwater - Private Residence Wells		70	1	1.4	10 ^	6.0 ^
Groundwater - School/Daycare Wells		113				6.0 ^
Chlorothalonil	_					
Groundwater - Agricultural/Farm Wells	F	95				30 ^
Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells		95 70				30 ^
Groundwater - Private Residence Wells  Groundwater - School/Daycare Wells		113				30 ^
Groundwater Gerioon Bayeare Wells		110				00
Chlorpyrifos	I					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Clomazone	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
		113				

Pesticular / Commodity / Well Type		Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
	Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Groundwater - Private Residence Wells   113	Clopyralid	Н					
Cyanazine	Groundwater - Agricultural/Farm Wells		95				12.5 ^
Cyanazine	Groundwater - Private Residence Wells		70	1	1.4	20.8 ^	12.5 ^
Groundwater - Agricultural/Farm Wells   70   50 \	Groundwater - School/Daycare Wells		113				12.5 ^
Strong   S	Cyanazine	Н					
DCPA	Groundwater - Agricultural/Farm Wells		95				50 ^
Caroundwater - Agricultural/Farm Wells   95   30   30   30   30   30   30   30   3	Groundwater - Private Residence Wells		70				50 ^
Groundwater - Agricultural/Farm Wells   95   30 ^	Groundwater - School/Daycare Wells		113				50 ^
Groundwater - Private Residence Wells   113   30   30   30   30   30   30   3	DCPA	Н					
Desethyl atrazine	Groundwater - Agricultural/Farm Wells		95				30 ^
Page	Groundwater - Private Residence Wells		70				30 ^
Groundwater - Agricultural/Farm Wells   95   10 ^	Groundwater - School/Daycare Wells		113				30 ^
Groundwater - Agricultural/Farm Wells   95   10 ^	Desethyl atrazine	НМ					
Groundwater - Private Residence Wells   70	-		95				10 ^
Desethyl-desisopropyl atrazine   HM   Groundwater - Agricultural/Farm Wells   95   2   2.1   25 \ 15 \ Groundwater - Private Residence Wells   70   36   51.4   25 - 990   15 \ Groundwater - School/Daycare Wells   113   2   1.8   25 - 334   15 \ Desisopropyl atrazine   HM	•			41	58.6	17 - 1070	
Groundwater - Agricultural/Farm Wells   95   2   2.1   25 ^   15 ^	Groundwater - School/Daycare Wells		113			17 - 767	10 ^
Groundwater - Agricultural/Farm Wells   95   2   2.1   25 ^   15 ^	Desethyl-desisonronyl atrazine	нм					
Groundwater - Private Residence Wells   70   36   51.4   25 - 990   15 ^		1 1111	95	2	21	25 ∧	15 A
Desisopropyl atrazine	•					_	
Groundwater - Agricultural/Farm Wells   95   27.1   83 - 202   50 ^							
Groundwater - Agricultural/Farm Wells   95   27.1   83 - 202   50 ^	•	ши					
Groundwater - Private Residence Wells   70   19   27.1   83 - 202   50 ^     Groundwater - School/Daycare Wells   113   1   0.9   83 ^     Diazinon   I               Groundwater - Agricultural/Farm Wells   95   30 ^     Groundwater - Private Residence Wells   70   30 ^     Groundwater - School/Daycare Wells   113                 Groundwater - Agricultural/Farm Wells   95   5.0 ^     Groundwater - Private Residence Wells   70   5.0 ^     Groundwater - Private Residence Wells   70   5.0 ^     Groundwater - School/Daycare Wells   113                 Groundwater - Agricultural/Farm Wells   95   10 ^     Groundwater - Agricultural/Farm Wells   95   10 ^     Groundwater - Private Residence Wells   70   10 ^     Groundwater - Private Residence Wells   113               Groundwater - School/Daycare Wells   113               Dimethenamid ethanesulfonic acid (ESA)   HM       Groundwater - Agricultural/Farm Wells   95   2.0 ^     Groundwater - Agricultural/Farm Wells   95   2.0 ^     Groundwater - Private Residence Wells   70   6   8.6   3.0 - 80.3   2.0 ^		ПІИІ	95				50 A
Diazinon	<del>-</del>			19	27 1	83 - 202	
Diazinon         I           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Dichlobenil         H         Foroundwater - Agricultural/Farm Wells         95         5.0 ^           Groundwater - Private Residence Wells         70         5.0 ^           Groundwater - School/Daycare Wells         113         5.0 ^           Dimethenamid         H         5.0 ^           Groundwater - Agricultural/Farm Wells         95         10 ^           Groundwater - Private Residence Wells         70         10 ^           Groundwater - School/Daycare Wells         113         10 ^           Dimethenamid ethanesulfonic acid (ESA)         HM         2.0 ^           Groundwater - Agricultural/Farm Wells         95         2.0 ^           Groundwater - Agricultural/Farm Wells         95         2.0 ^           Groundwater - Private Residence Wells         70         6         8.6         3.0 - 80.3         2.0 ^			_				
Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells Dichlobenil H Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - Private Residence Wells To Groundwater - School/Daycare Wells Til3 To Groundwater - School/Daycare Wells Til3 To Dimethenamid H Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - School/Daycare Wells Til3 To Foundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To Groundwater - Private Resid	•			·	0.0		
Groundwater - Private Residence Wells Groundwater - School/Daycare Wells  Dichlobenil H  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells To Groundwater - School/Daycare Wells To Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - School/Daycare Wells To Groundwater - School/Daycare Wells To Groundwater - School/Daycare Wells To Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells To Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To Groundwater - Private		ı	05				20.4
Groundwater - School/Daycare Wells  Dichlobenil  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells  Dimethenamid  Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells 70 Groundwater - Private Residence Wells 70 Groundwater - Private Residence Wells 70 Groundwater - School/Daycare Wells 113  Dimethenamid ethanesulfonic acid (ESA) HIM Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3	<del>-</del>						
Dichlobenil H  Groundwater - Agricultural/Farm Wells 95 5.0 ^ Groundwater - Private Residence Wells 70 5.0 ^ Groundwater - School/Daycare Wells 113 5.0 ^  Dimethenamid H  Groundwater - Agricultural/Farm Wells 95 10 ^ Groundwater - Private Residence Wells 70 10 ^ Groundwater - School/Daycare Wells 113 10 ^  Dimethenamid ethanesulfonic acid (ESA) HM  Groundwater - Agricultural/Farm Wells 95 2.0 ^ Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^							
Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 70 Groundwater - School/Daycare Wells 113  Dimethenamid H Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 70 Groundwater - Private Residence Wells 70 Groundwater - School/Daycare Wells 113  Dimethenamid ethanesulfonic acid (ESA) Groundwater - Agricultural/Farm Wells 95 Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^	Groundwater - School/Daycare Wells		113				30 ^
Groundwater - Private Residence Wells 70 5.0 ^ Groundwater - School/Daycare Wells 113 5.0 ^  Dimethenamid H  Groundwater - Agricultural/Farm Wells 95 10 ^ Groundwater - Private Residence Wells 70 10 ^ Groundwater - School/Daycare Wells 113 10 ^  Dimethenamid ethanesulfonic acid (ESA) HM  Groundwater - Agricultural/Farm Wells 95 2.0 ^ Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^		Н					
Groundwater - School/Daycare Wells  Dimethenamid  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  Groundwater - School/Daycare Wells  To  Groundwater - School/Daycare Wells  To  To  Dimethenamid ethanesulfonic acid (ESA)  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  To  To  To  To  To  To  To  To  To  T							
Dimethenamid H  Groundwater - Agricultural/Farm Wells 95 10 ^  Groundwater - Private Residence Wells 70 10 ^  Groundwater - School/Daycare Wells 113 10 ^  Dimethenamid ethanesulfonic acid (ESA) HM  Groundwater - Agricultural/Farm Wells 95 2.0 ^  Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^							
Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells 113  Dimethenamid ethanesulfonic acid (ESA) Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^	Groundwater - School/Daycare Wells		113				5.0 ^
Groundwater - Private Residence Wells 70 10 ^ Groundwater - School/Daycare Wells 113 10 ^  Dimethenamid ethanesulfonic acid (ESA) HM Groundwater - Agricultural/Farm Wells 95 2.0 ^ Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^		Н					
Groundwater - School/Daycare Wells  Dimethenamid ethanesulfonic acid (ESA)  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  113  10 ^  2.0 ^  3.0 - 80.3  2.0 ^							-
Dimethenamid ethanesulfonic acid (ESA) HM  Groundwater - Agricultural/Farm Wells 95 2.0 ^  Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^			-				
Groundwater - Agricultural/Farm Wells 95 2.0 ^ Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^	Groundwater - School/Daycare Wells		113				10 ^
Groundwater - Private Residence Wells 70 6 8.6 3.0 - 80.3 2.0 ^	Dimethenamid ethanesulfonic acid (ESA)	НМ					
	Groundwater - Agricultural/Farm Wells		95				2.0 ^
Groundwater - School/Daycare Wells 113 2.0 ^	Groundwater - Private Residence Wells		70	6	8.6	3.0 - 80.3	2.0 ^
	Groundwater - School/Daycare Wells		113				2.0 ^

	Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Dimethenamid oxanilic acid (OA)	НМ					
Groundwater - Agricultural/Farm Wells		95				3.0 ^
Groundwater - Private Residence Wells		70	2	2.9	5.0 - 15.4	3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Dimethoate	1					
Groundwater - Agricultural/Farm Wells		95				50 ^
Groundwater - Private Residence Wells		70				50 ^
Groundwater - School/Daycare Wells		113				50 ^
Disulfoton sulfone	IM					
Groundwater - Agricultural/Farm Wells		95				6.0 ^
Groundwater - Private Residence Wells		70				6.0 ^
Groundwater - School/Daycare Wells		113				6.0 ^
Diuron	Н					
Groundwater - Agricultural/Farm Wells		95	4	4.2	7.0 - 26.3	4.0 ^
Groundwater - Private Residence Wells		70	1	1.4	89.1 ^	4.0 ^
Groundwater - School/Daycare Wells		113	2	1.8	7.0 ^	4.0 ^
EPTC	Н					
Groundwater - Agricultural/Farm Wells	11	95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
•						
Ethalfluralin	Н	0.5				00.4
Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells		95 70				30 ^ 30 ^
Groundwater - Private Residence Wells  Groundwater - School/Daycare Wells		70 113				30 ^
·		113				30 ^
Flufenacet oxanilic acid (OA)	HM					
Groundwater - Agricultural/Farm Wells		95				2.5 ^
Groundwater - Private Residence Wells		70				2.5 ^
Groundwater - School/Daycare Wells		113				2.5 ^
Fluometuron	Н					
Groundwater - Agricultural/Farm Wells		95				50 ^
Groundwater - Private Residence Wells		70				50 ^
Groundwater - School/Daycare Wells		113				50 ^
Fonofos	1					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Halosulfuron	Н					
Groundwater - Agricultural/Farm Wells		95				9.0 ^
Groundwater - Private Residence Wells		70				9.0 ^
Groundwater - School/Daycare Wells		113				9.0 ^
•						

Destinide / Common Street (Mall Tr	Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Hydroxy atrazine	HM					
Groundwater - Agricultural/Farm Wells		95	2	2.1	3.0 ^	2.0 ^
Groundwater - Private Residence Wells		70	41	58.6	3.0 - 50.8	2.0 ^
Groundwater - School/Daycare Wells		113	2	1.8	19.4 - 35.4	2.0 ^
Imazamethabenz acid	Н					
Groundwater - Agricultural/Farm Wells		95				3.0 ^
Groundwater - Private Residence Wells		70				3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Imazamethabenz methyl	Н					
Groundwater - Agricultural/Farm Wells		95				1.5 ^
Groundwater - Private Residence Wells		70				1.5 ^
Groundwater - School/Daycare Wells		113				1.5 ^
Imazamox	Н					
Groundwater - Agricultural/Farm Wells		95				4.0 ^
Groundwater - Private Residence Wells		70				4.0 ^
Groundwater - School/Daycare Wells		113				4.0 ^
•	ш					
Imazapic Groundwater - Agricultural/Farm Wells	Н	95	1	1.1	5.0 ^	3.0 ^
Groundwater - Private Residence Wells		95 70	'	1.1	5.0 ^	3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Croundwater Conson Bayoure Wells		110				0.0
Imazapyr	Н		_			
Groundwater - Agricultural/Farm Wells		95	5	5.3	14.8 - 414	2.5 ^
Groundwater - Private Residence Wells		70	,	0.0	0.44	2.5 ^
Groundwater - School/Daycare Wells		113	1	0.9	8.4 ^	2.5 ^
lmazaquin	Н					
Groundwater - Agricultural/Farm Wells		95				5.0 ^
Groundwater - Private Residence Wells		70	1	1.4	8.0 ^	5.0 ^
Groundwater - School/Daycare Wells		113				5.0 ^
Imazethapyr	Н					
Groundwater - Agricultural/Farm Wells		95				2.0 ^
Groundwater - Private Residence Wells		70	3	4.3	3.0 ^	2.0 ^
Groundwater - School/Daycare Wells		113				2.0 ^
Linuron	Н					
Groundwater - Agricultural/Farm Wells	• •	95				6.0 ^
Groundwater - Private Residence Wells		70				6.0 ^
Groundwater - School/Daycare Wells		113				6.0 ^
Malathion	1					
Groundwater - Agricultural/Farm Wells	'	95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
C. Sanawator Condon Dayoure Wells		110				00

			Samples	% of		
Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	with Detections	Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Malathion oxygen analog	IM					
Groundwater - Agricultural/Farm Wells		95				300 - 600
Groundwater - Private Residence Wells		70				600 ^
Groundwater - School/Daycare Wells		113				600 ^
МСРА	Н					
Groundwater - Agricultural/Farm Wells		95				1.5 ^
Groundwater - Private Residence Wells		70				1.5 ^
Groundwater - School/Daycare Wells		113				1.5 ^
МСРВ	Н					
Groundwater - Agricultural/Farm Wells		95				3.0 ^
Groundwater - Private Residence Wells		70				3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Metalaxyl	F					
Groundwater - Agricultural/Farm Wells		95	24	25.3	4.2 - 955	2.5 ^
Groundwater - Private Residence Wells		70	1	1.4	4.2 ^	2.5 ^
Groundwater - School/Daycare Wells		113				2.5 ^
Methidathion	ı					
Groundwater - Agricultural/Farm Wells		95				100 ^
Groundwater - Private Residence Wells		70				100 ^
Groundwater - School/Daycare Wells		113				100 ^
Methidathion oxygen analog	IM					
Groundwater - Agricultural/Farm Wells		95				700 ^
Groundwater - Private Residence Wells		70				700 ^
Groundwater - School/Daycare Wells		113				700 ^
Metolachlor	Н					
Groundwater - Agricultural/Farm Wells		95	2	2.1	25 ^	15 ^
Groundwater - Private Residence Wells		70	7	10.0	25 - 11900	15 ^
Groundwater - School/Daycare Wells		113	1	0.9	25 ^	15 ^
Metolachlor ethanesulfonic acid (ESA)	НМ					
Groundwater - Agricultural/Farm Wells		95	13	13.7	5.0 - 97.1	3.0 ^
Groundwater - Private Residence Wells		70	55	78.6	5.0 - 15900	3.0 ^
Groundwater - School/Daycare Wells		113	40	35.4	5.0 - 1360	3.0 ^
Metolachlor oxanilic acid (OA)	НМ					
Groundwater - Agricultural/Farm Wells		95	3	3.2	5.0 - 102	3.0 ^
Groundwater - Private Residence Wells		70	49	70.0	5.0 - 3760	3.0 ^
Groundwater - School/Daycare Wells		113	14	12.4	5.0 - 109	3.0 ^
Metribuzin	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^

Metsulfuron methyl         H         Sembles         Detection         Detected, ppt         LODs, ppt           Metsulfuron methyl         H         Soundwater - Agricultural/Farm Wells         95          7.0 ^           Groundwater - Agricultural/Farm Wells         70          7.0 ^           Groundwater - School/Daycare Wells         113         1.1         83 ^         50 ^           Groundwater - Agricultural/Farm Wells         95         1         1.1         83 ^         50 ^           Groundwater - School/Daycare Wells         113           50 ^           Groundwater - Agricultural/Farm Wells         95           3.0 ^           Groundwater - Agricultural/Farm Wells         95           3.0 ^           Groundwater - School/Daycare Wells         113          8.0 ^           Groundwater - Agricultural/Farm Wells         95          8.0 ^           Groundwater - Agricultural/Farm Wells         95          30 ^           Groundwater - Agricultural/Farm Wells         95          30 ^           Groundwater - School/Daycare Wells         70          30 ^           Groundwater - Scho		Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
Groundwater - Agricultural/Farm Wells   95   7.0 ^	Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Groundwater - Private Residence Wells   70   7.0 ^	Metsulfuron methyl	Н					
Myclobutani    F	Groundwater - Agricultural/Farm Wells		95				7.0 ^
Myclobutanil   F	Groundwater - Private Residence Wells		70				7.0 ^
Groundwater - Agricultural/Farm Wells   95   1   1.1   83 ^   50 ^	Groundwater - School/Daycare Wells		113				7.0 ^
Groundwater - Private Residence Wells   113   50 ^     Groundwater - School/Daycare Wells   113   50 ^     Neburon	Myclobutanil	F					
Abeburon         H           Groundwater - Agricultural/Farm Wells         95         3.0 ^           Groundwater - Private Residence Wells         70         3.0 ^           Groundwater - School/Daycare Wells         113         3.0 ^           Nicosulfuron         H         —           Groundwater - Agricultural/Farm Wells         95         8.0 ^           Groundwater - Private Residence Wells         70         8.0 ^           Groundwater - School/Daycare Wells         113         8.0 ^           Groundwater - School/Daycare Wells         70         30 ^           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - Priva	Groundwater - Agricultural/Farm Wells		95	1	1.1	83 ^	50 ^
Neburon         H           Groundwater - Agricultural/Farm Wells         95         3.0 ^           Groundwater - Private Residence Wells         70         3.0 ^           Groundwater - School/Daycare Wells         113         3.0 ^           Nicosulfuron         H         ————————————————————————————————————	Groundwater - Private Residence Wells		70				50 ^
Groundwater - Agricultural/Farm Wells   95   3.0 ^ 6   Groundwater - Private Residence Wells   70   3.0 ^ 6   Groundwater - School/Daycare Wells   113   3.0 ^ 6   S.0 ^ 6   Groundwater - School/Daycare Wells   113   3.0 ^ 6   S.0 ^ 6   Groundwater - Agricultural/Farm Wells   95   8.0 ^ 6   Groundwater - Private Residence Wells   70   8.0 ^ 6   Groundwater - School/Daycare Wells   113   8.0 ^ 6   Groundwater - Agricultural/Farm Wells   95   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - School/Daycare Wells   113   30 ^ 6   Groundwater - School/Daycare Wells   113   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - School/Daycare Wells   113   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   50 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence Wells   70   30 ^ 6   Groundwater - Private Residence	Groundwater - School/Daycare Wells		113				50 ^
Groundwater - Private Residence Wells   113   3.0 ^	Neburon	Н					
Groundwater - School/Daycare Wells         113         3.0 ^           Nicosulfuron         H           Groundwater - Agricultural/Farm Wells         95         8.0 ^           Groundwater - Private Residence Wells         70         8.0 ^           Groundwater - School/Daycare Wells         113         8.0 ^           Parathion methyl         I         I           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Permethrin cis         IM         50 ^           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - Private Residence Wel	Groundwater - Agricultural/Farm Wells		95				3.0 ^
Nicosulfuron         H           Groundwater - Agricultural/Farm Wells         95         8.0 ^           Groundwater - Private Residence Wells         70         8.0 ^           Groundwater - School/Daycare Wells         113         8.0 ^           Parathion methyl         I         I           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Fendimethalin         H         Fendimethalin         95         30 ^           Groundwater - Agricultural/Farm Wells         95         30 ^         30 ^           Groundwater - Private Residence Wells         70         30 ^         30 ^           Groundwater - Agricultural/Farm Wells         95         50 ^         50 ^           Groundwater - Private Residence Wells         70         50 ^         50 ^           Groundwater - Private Residence Wells         113         50 ^         50 ^           Permethrin trans         IM         IM         50 ^         50 ^           Groundwater - Agricultural/Farm Wells         95         50 ^         50 ^           Groundwater - Private Residence Wells         70 <td></td> <td></td> <td>70</td> <td></td> <td></td> <td></td> <td>3.0 ^</td>			70				3.0 ^
Groundwater - Agricultural/Farm Wells   95   8.0 ^	Groundwater - School/Daycare Wells		113				3.0 ^
Groundwater - Agricultural/Farm Wells   95   8.0 ^	Nicosulfuron	Н					
Groundwater - Private Residence Wells			95				8.0 ^
Groundwater - School/Daycare Wells         113         8.0 ^           Parathion methyl         I         30 ^           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Pendimethalin         H         Ferdimethalin         H           Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Permethrin cis         IM         50 ^           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - School/Daycare Wells         113         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - School/Daycare Wells         113         50 ^           Groundwater - School/Daycare Wells         113         30 ^           Phorate         I         Groundwater - Agricultural/Farm Wells         95         30 ^           Groundwater - School/Daycare Wells         113							
Parathion methyl			113				
Groundwater - Agricultural/Farm Wells       95       30 ^         Groundwater - Private Residence Wells       70       30 ^         Groundwater - School/Daycare Wells       113       30 ^         Pendimethalin       H							
Groundwater - Private Residence Wells   113   30	-	'	95				30 ^
Groundwater - School/Daycare Wells         113         30 ^           Pendimethalin         H         Image: Control of the provided of t							
Pendimethalin Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells III  Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Foroundwater - Private Residence Wells Groundwater - School/Daycare Wells III  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Foroundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Foroundwater - Private Residence Wells Foroundwater - School/Daycare Wells Foroundwater - Private Residence Wells Foroundwater - School/Daycare Wells Foroundwater - School/Daycare Wells Foroundwater - School/Daycare Wells Foroundwater - School/Daycare Wells Foroundwater - Private Residence Wells Foroundwater - School/Daycare Wells Foroundwater - School/Daycare Wells Foroundwater - Private Residence Wells F			_				
Groundwater - Agricultural/Farm Wells       95       30 ^         Groundwater - Private Residence Wells       70       30 ^         Groundwater - School/Daycare Wells       113       30 ^         Permethrin cis       IM         Groundwater - Agricultural/Farm Wells       95       50 ^         Groundwater - Private Residence Wells       70       50 ^         Groundwater - School/Daycare Wells       113       50 ^         Permethrin trans       IM       50 ^         Groundwater - Agricultural/Farm Wells       95       50 ^         Groundwater - Private Residence Wells       70       50 ^         Groundwater - School/Daycare Wells       113       50 ^         Phorate         Groundwater - Private Residence Wells       70       30 ^         Groundwater - School/Daycare Wells       113       30 ^         Phorate oxygen analog       IM         Groundwater - Agricultural/Farm Wells       95       50 ^         Groundwater - Private Residence Wells       70       50 ^         Groundwater - School/Daycare Wells       113       30 ^         Phorate oxygen analog       IM       50 ^         Groundwater - Private Residence Wells       95       50 ^	Pandimathalia	ш					
Groundwater - Private Residence Wells   113   30 ^		П	95				30 ^
Groundwater - School/Daycare Wells  Permethrin cis  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells Groundwater - School/Daycare Wells HIM  Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells TO Groundwater - Private Residence Wells TO Groundwater - School/Daycare Wells TI  Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells TO Groundwater - Private Residence Wells TO Groundwater - Private Residence Wells TO Groundwater - School/Daycare Wells TI  Phorate oxygen analog IM Groundwater - Agricultural/Farm Wells Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells TO	<del>-</del>						
Permethrin cis         IM           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - School/Daycare Wells         113         50 ^           Permethrin trans         IM         IM         Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - School/Daycare Wells         113         50 ^           Phorate         I         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - Private Residence Wells         70         30 ^           Groundwater - School/Daycare Wells         113         30 ^           Phorate oxygen analog         IM         IM           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^           Groundwater - Agricultural/Farm Wells         95         50 ^           Groundwater - Private Residence Wells         70         50 ^			_				
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Groundwater - Private Residence Wells Groundwater - School/Daycare Wells  Permethrin trans IM  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells To Groundwater - School/Daycare Wells To Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - Private Residence Wells To Groundwater - School/Daycare Wells To Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells To		IM	0.5				50 A
Groundwater - School/Daycare Wells  Permethrin trans  IM  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells Groundwater - School/Daycare Wells  Phorate  Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells  113  Phorate  Groundwater - Private Residence Wells  70  Groundwater - Private Residence Wells  70  Groundwater - School/Daycare Wells  113  30 ^  Phorate oxygen analog  IM  Groundwater - Agricultural/Farm Wells  95  Groundwater - Private Residence Wells  70  Groundwater - Private Residence Wells  70  Florate oxygen analog  Groundwater - Private Residence Wells  70  Groundwater - Private Residence Wells  70  50 ^							
Permethrin trans IM  Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^ Groundwater - School/Daycare Wells 113 50 ^  Phorate I  Groundwater - Agricultural/Farm Wells 95 30 ^ Groundwater - Private Residence Wells 70 30 ^ Groundwater - Private Residence Wells 113 30 ^  Phorate oxygen analog IM  Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 10			_				
Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 70 Groundwater - School/Daycare Wells 113  Phorate I Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 70 Groundwater - Private Residence Wells 70 Groundwater - School/Daycare Wells 113  Phorate oxygen analog IM Groundwater - Agricultural/Farm Wells 95 Groundwater - Private Residence Wells 95 Groundwater - Private Residence Wells 95 Groundwater - Private Residence Wells 70 Groundwater - Private Residence Wells 70	Groundwater - School/Daycare Wells		113				50 ^
Groundwater - Private Residence Wells 70 50 ^ Groundwater - School/Daycare Wells 113 50 ^  Phorate I Groundwater - Agricultural/Farm Wells 95 30 ^ Groundwater - Private Residence Wells 70 30 ^ Groundwater - School/Daycare Wells 113 30 ^  Phorate oxygen analog IM Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^		IM					
Groundwater - School/Daycare Wells  Phorate  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  Groundwater - School/Daycare Wells  To  Groundwater - School/Daycare Wells  To  Phorate oxygen analog  IM  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  To  To  To  To  To  To  To  To  To  T							
Phorate I Groundwater - Agricultural/Farm Wells 95 30 ^ Groundwater - Private Residence Wells 70 30 ^ Groundwater - School/Daycare Wells 113 30 ^  Phorate oxygen analog IM Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^			_				
Groundwater - Agricultural/Farm Wells 95 30 ^ Groundwater - Private Residence Wells 70 30 ^ Groundwater - School/Daycare Wells 113 30 ^  Phorate oxygen analog IM Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^	Groundwater - School/Daycare Wells		113				50 ^
Groundwater - Private Residence Wells 70 30 ^ Groundwater - School/Daycare Wells 113 30 ^  Phorate oxygen analog IM  Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^	Phorate	1					
Groundwater - School/Daycare Wells  Phorate oxygen analog  Groundwater - Agricultural/Farm Wells  Groundwater - Private Residence Wells  70  30 ^  50 ^  50 ^	Groundwater - Agricultural/Farm Wells		95				30 ^
Phorate oxygen analog IM  Groundwater - Agricultural/Farm Wells 95 50 ^  Groundwater - Private Residence Wells 70 50 ^	Groundwater - Private Residence Wells		70				30 ^
Groundwater - Agricultural/Farm Wells 95 50 ^ Groundwater - Private Residence Wells 70 50 ^	Groundwater - School/Daycare Wells		113				30 ^
Groundwater - Private Residence Wells 70 50 ^	Phorate oxygen analog	IM					
	Groundwater - Agricultural/Farm Wells		95				50 ^
Groundwater - School/Daycare Wells 113 50 ^	Groundwater - Private Residence Wells		70				50 ^
	Groundwater - School/Daycare Wells		113				50 ^

D :: 1	Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Phorate sulfone	IM					
Groundwater - Agricultural/Farm Wells		95				100 ^
Groundwater - Private Residence Wells		70				100 ^
Groundwater - School/Daycare Wells		113				100 ^
Phorate sulfoxide	IM					
Groundwater - Agricultural/Farm Wells		95				100 ^
Groundwater - Private Residence Wells		70				100 ^
Groundwater - School/Daycare Wells		113				100 ^
Picloram	Н					
Groundwater - Agricultural/Farm Wells		95				12.5 ^
Groundwater - Private Residence Wells		70	1	1.4	20.8 ^	12.5 ^
Groundwater - School/Daycare Wells		113	1	0.9	20.8 ^	12.5 ^
Prometon	Н					
Groundwater - Agricultural/Farm Wells	• •	95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
•						
Prometryn	Н	0.5				4.0.4
Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells		95 70				1.0 ^ 1.0 ^
Groundwater - School/Daycare Wells		113				1.0 ^
Glodildwater - School/Daycare Wells		113				1.0
Propachlor	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Propachlor oxanilic acid (OA)	НМ					
Groundwater - Agricultural/Farm Wells		95				3.0 ^
Groundwater - Private Residence Wells		70				3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Propanil	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Propazine	Н					
Groundwater - Agricultural/Farm Wells	11	95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Propiconazole	F					
Groundwater - Agricultural/Farm Wells	Γ	95				50 ^
Groundwater - Private Residence Wells		70				50 ^
Groundwater - School/Daycare Wells		113				50 ^
Stouthawater - School/DayCate Wells		113				30 A

Posticide / Commodity / Well Tyre	Pest.	Number of	Samples with	% of Samples w/	Range of Values	Range of
Pesticide / Commodity / Well Type	Туре	Samples	Detections	Detects	Detected, ppt	LODs, ppt
Propoxur	I					
Groundwater - Agricultural/Farm Wells		95				3.0 ^
Groundwater - Private Residence Wells		70				3.0 ^
Groundwater - School/Daycare Wells		113				3.0 ^
Siduron	Н					
Groundwater - Agricultural/Farm Wells		95				2.0 ^
Groundwater - Private Residence Wells		70				2.0 ^
Groundwater - School/Daycare Wells		113				2.0 ^
Simazine	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Sulfometuron methyl	Н					
Groundwater - Agricultural/Farm Wells	• •	95				2.5 ^
Groundwater - Private Residence Wells		70				2.5 ^
Groundwater - School/Daycare Wells		113				2.5 ^
•	_					
Tebuconazole	F	0.5				50 A
Groundwater - Agricultural/Farm Wells Groundwater - Private Residence Wells		95 70				50 ^ 50 ^
		113				50 ^
Groundwater - School/Daycare Wells		113				30 ^
Tebupirimfos	I					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Tebuthiuron	Н					
Groundwater - Agricultural/Farm Wells		95	1	1.1	50 ^	30 ^
Groundwater - Private Residence Wells		70	1	1.4	333 ^	30 ^
Groundwater - School/Daycare Wells		113				30 ^
Terbufos	1					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Tatraganazala	_					
<b>Tetraconazole</b> Groundwater - Agricultural/Farm Wells	F	95				30 ^
Groundwater - Private Residence Wells		93 70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
·		110				55
Thifensulfuron	Н	0.7				<b>.</b>
Groundwater - Agricultural/Farm Wells		95				5.0 ^
Groundwater - Private Residence Wells		70				5.0 ^
Groundwater - School/Daycare Wells		113				5.0 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Thiobencarb	Н					
Groundwater - Agricultural/Farm Wells		95				2.5 ^
Groundwater - Private Residence Wells		70				2.5 ^
Groundwater - School/Daycare Wells		113				2.5 ^
Tri Allate	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Triasulfuron	Н					
Groundwater - Agricultural/Farm Wells		95				7.0 ^
Groundwater - Private Residence Wells		70				7.0 ^
Groundwater - School/Daycare Wells		113				7.0 ^
Trifluralin	Н					
Groundwater - Agricultural/Farm Wells		95				30 ^
Groundwater - Private Residence Wells		70				30 ^
Groundwater - School/Daycare Wells		113				30 ^
Triticonazole	F					
Groundwater - Agricultural/Farm Wells		95				500 ^
Groundwater - Private Residence Wells		70				500 ^
Groundwater - School/Daycare Wells		113				500 ^

### **NOTES**

### Pesticide Types:

F = Fungicide

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

 $<sup>^{\</sup>wedge}$  = Only one distinct detected concentration or LOD value was reported for the pair.

### Appendix G

## Distribution of Residues by Pesticide in Drinking Water

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

In 2009, the Pesticide Data Program (PDP) analyzed 612 drinking water samples, including 306 finished drinking water samples and 306 untreated (raw intake) drinking water samples. PDP detected 53 different residues (including metabolites), representing 42 pesticides, in finished drinking water and 49 different residues (including metabolites), representing 38 pesticides, in the untreated intake water; most of the detections were herbicides. None of the finished drinking water samples exceeded EPA MCLs or HAs for any pesticide detected. In fact, the majority of pesticides included in the PDP screens were not detected.

The MCLs are legally enforceable standards that apply to public water systems. EPA's regulations for MCLs can be referenced at http://www.epa.gov/safewater/mcl.html. The HAs are an estimate of acceptable drinking water levels for a chemical substance based on health effects information. The values published are for lifetime HA, which is the concentration of a chemical in drinking water that is not expected to cause any adverse non-carcinogenic effects for a lifetime of exposure. The HA values can be referenced at http://www.epa.gov/waterscience/criteria/drinking. FAO criteria are set by EPA and are the concentration of a chemical in water at or below which aquatic life are protected from acute and chronic adverse effects of the chemical. The FAO values can be referenced at http://www.epa.gov/waterscience/criteria/wqctable/index.html. Health Advisories and FAO criteria are not legally enforceable Federal standards, but serve as technical guidance to assist Federal, State, and local officials.

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

## APPENDIX G. DISTRIBUTION OF RESIDUES BY PESTICIDE IN DRINKING WATER

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> ,	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
<b>2,4,5-T</b> Water, Finished Water, Untreated	Н	306 305				1.6 - 6.0 1.6 - 6.0		70,000	
<b>2,4-D</b> Water, Finished Water, Untreated	Н	306 305	249 250	81.4 82.0	1.1 - 180 1.1 - 690	0.65 - 3.6 0.65 - 3.6	70,000		
<b>2,4-DB</b> Water, Finished Water, Untreated	Н	306 305				14 - 100 14 - 100			
<b>3-Hydroxycarbofuran</b> Water, Finished Water, Untreated	IM	119 118				24 ^ 24 ^			
Acetochlor Water, Finished Water, Untreated	Н	306 306	12 34	3.9 11.1	15.3 ^ 15.3 - 210	9.2 - 49.5 9.2 - 49.5			
Acetochlor ethanesulfonic acid (ESA) Water, Finished Water, Untreated	НМ	306 305	119 127	38.9 41.6	2.7 - 960 2.7 - 1000	1.6 - 4.8 1.6 - 4.8			
Acetochlor oxanilic acid (OA) Water, Finished Water, Untreated	НМ	306 305	120 128	39.2 42.0	2.3 - 1300 2.3 - 1300	1.4 - 4.8 1.4 - 4.8			
Alachlor Water, Finished Water, Untreated	Н	306 306	2 4	0.7 1.3	13 ^ 13 - 16.3	7.8 - 9.8 7.8 - 9.8	2,000		
Alachlor ethanesulfonic acid (ESA) Water, Finished Water, Untreated	НМ	306 305	135 143	44.1 46.9	2.8 - 110 2.8 - 110	1.7 - 4.8 1.7 - 4.8			
Alachlor oxanilic acid (OA) Water, Finished Water, Untreated	НМ	306 305	109 116	35.6 38.0	1.0 - 61 1.0 - 81	0.61 - 4.8 0.61 - 4.8			
Aldicarb Water, Finished Water, Untreated	I	119 119				5.3 ^ 5.3 ^	3,000	7,000	
Aldrin Water, Finished Water, Untreated	I	187 187				9.6 ^ 9.6 ^			3,000
Atrazine Water, Finished Water, Untreated	Н	306 306	269 273	87.9 89.2	1.1 - 1248 1.1 - 1832	0.66 - 2.3 0.66 - 2.2	3,000		

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Azinphos methyl	I								
Water, Finished		306				10 - 22.5			
Water, Untreated		306				10 - 22.5			
Azinphos methyl oxygen analog Water, Finished	IM	187				8.7 ^			
Water, Untreated		187				8.7 ^			
Benfluralin	Н								
Water, Finished		119				11.3 - 15			
Water, Untreated		119				11.3 - 15			
Bensulfuron methyl	Н								
Water, Finished		306				1.2 - 1.5			
Water, Untreated		305				1.2 - 1.5			
Bentazon	Н								
Water, Finished		306	76	24.8	0.30 - 7.1	0.18 - 1.2		200,000	
Water, Untreated		305	120	39.3	0.30 - 13	0.18 - 1.2			
Bifenthrin	I								
Water, Finished		187				3.2 ^			
Water, Untreated		187				3.2 ^			
Bromacil	Н	000		0.7	07. 45	0.5.00		70.000	
Water, Finished Water, Untreated		306 305	2 22	0.7 7.2	27 - 45 4.2 - 41	2.5 - 9.6 2.5 - 9.6		70,000	
		000	22	7.2	7.2 71	2.0 0.0			
Bromoxynil Water, Finished	Н	119				6.0 ^			
Water, Untreated		118				6.0 ^			
Bromuconazole 46	FM								
Water, Finished	1 101	187				3.2 ^			
Water, Untreated		187				3.2 ^			
Bromuconazole 47	FM								
Water, Finished		187				5.4 ^			
Water, Untreated		187				5.4 ^			
Butachlor	Н								
Water, Finished		306				1.9 - 5.3			
Water, Untreated		306				1.9 - 5.3			
Butylate	Н								
Water, Finished		187				1.8 ^		400,000	
Water, Untreated		187				1.8 ^			
Carbaryl Water Finished	I	206	2	0.7	20 - 100	10 00			
Water, Finished Water, Untreated		306 305	2 2	0.7 0.7	20 - 100 38 - 92	12 - 23 12 - 23			
	F	200	_	J.,	55 OL				
Carbendazim (MBC) Water, Finished	Г	119				1.8 ^			
Water, Untreated		118	15	12.7	3.0 - 52	1.8 ^			
Carbofuran	1								
Water, Finished	•	306	3	1.0	2.0 ^	0.60 - 1.0	40,000		
,									

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Carbophenothion	I								
Water, Finished		119				6.0 - 7.5			
Water, Untreated		119				6.0 - 7.5			
Chloramben	Н								
Water, Finished		119				60 ^		100,000	
Water, Untreated		118				60 ^			
Chlordane cis	I								
Water, Finished		119				2.3 ^	2,000		0.400
Water, Untreated		119				2.3 ^			2,400
Chlordane trans	I								
Water, Finished		119				2.3 ^	2,000		0.400
Water, Untreated		119				2.3 ^			2,400
Chlorfenvinphos total	I								
Water, Finished		306				7.5 - 9.6			
Water, Untreated		306				7.5 - 9.6			
Chlorimuron ethyl	Н								
Water, Finished		298	17	5.7	22 - 52	8.4 - 13			
Water, Untreated		297	22	7.4	22 - 57	8.4 - 13			
Chlorpyrifos	1								
Water, Finished		119				6.0 - 7.5		2,000	
Water, Untreated		119				6.0 - 7.5			
Chlorpyrifos methyl	I								
Water, Finished		119				11.3 ^			
Water, Untreated		119				11.3 ^			
Clopyralid	Н								
Water, Finished		226	27	11.9	5.7 - 92	3.4 - 30			
Water, Untreated		225	32	14.2	5.7 - 38	3.4 - 30			
Coumaphos	ı								
Water, Finished		119				12 ^			
Water, Untreated		119				12 ^			
Coumaphos oxygen analog	IM								
Water, Finished		119				30 ^			
Water, Untreated		119				30 ^			
Cyanazine	Н								
Water, Finished		306				1.7 - 24.8		1000	
Water, Untreated		306				1.7 - 24.8			
Cycloate	Н								
Water, Finished		306				3.3 - 6.0			
Water, Untreated		305				3.3 - 6.0			
Cyfluthrin	ı								
Water, Finished	•	187				40 ^			
Water, Untreated		187				40 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	ı								
Water, Finished	·	187				42 ^			
Water, Untreated		187				42 ^			
Cypermethrin	1								
Water, Finished		187				74 ^			
Water, Untreated		187				74 ^			
Cyphenothrin	I								
Water, Finished		187				14 ^			
Water, Untreated		187				14 ^			
Cyproconazole	F								
Water, Finished		187				1.6 ^			
Water, Untreated		187				1.6 ^			
DCPA Water, Finished	Н	111				0.00 4		70.000	
Water, Untreated		114 114				0.80 ^ 0.75 ^		70,000	
						0.70			
DCPA monoacid Water, Finished	Н	119				141 - 222			
Water, Untreated		118				141 - 222			
DDD o,p'	IM								
Water, Finished	IIVI	119				3.8 ^			
Water, Untreated		119				3.8 ^			
DDD p,p'	IM								
Water, Finished		119				3.8 ^			
Water, Untreated		119				3.8 ^			
DDE p,p'	IM								
Water, Finished		119				7.5 ^			
Water, Untreated		119				7.5 ^			
DDT o,p'	1								
Water, Finished		119				3.8 ^			
Water, Untreated		119				3.8 ^			
DDT p,p'	I								
Water, Finished		119				3.8 - 12.5			
Water, Untreated		119				3.8 - 12.5			
Deltamethrin (includes parent	,								
Tralomethrin) Water, Finished	ı	187				84 ^			
Water, Finished Water, Untreated		187				84 ^			
Desethyl atrazine	НМ								
Water, Finished	1 1111	306	234	76.5	0.72 - 540	0.43 - 24.8			
Water, Untreated		306	245	80.1	0.72 - 520	0.43 - 24.8			
Desisopropyl atrazine	НМ								
Water, Finished		306	164	53.6	5.2 - 333	3.1 - 9.8			
Water, Untreated		306	182	59.5	5.2 - 310	3.1 - 9.8			

		Number	Samples	% of Samples	Range of				EPA
	Pest.	of	with	with	Values	Range of	EPA MCL,		FAO <sup>3</sup> ,
Pesticide / Commodity	Type	Samples	Detects	Detects	Detected, ppt	LODs, ppt	ppt 1	ppt <sup>1</sup>	ppt <sup>1</sup>
Diazinon	I								
Water, Finished		306				3.3 - 7.5		1,000	470
Water, Untreated		306				3.3 - 7.5			170
Diazinon oxygen analog	IM	440				4.5.00			
Water, Finished		119				4.5 - 9.0			
Water, Untreated		119				4.5 - 9.0			
Dicamba	Н								
Water, Finished		187				15 ^ 15 ^		4,000,000	
Water, Untreated		187				15 ^			
Dichlobenil	Н	4.40				45.4			
Water, Finished		119				45 ^ 45 ^			
Water, Untreated		119				45 ^			
Dichlorprop	Н	000							
Water, Finished		306				1.7 - 1.8 1.7 - 1.8			
Water, Untreated		305				1.7 - 1.0			
Dichlorvos (DDVP)	I	4.40				4404			
Water, Finished Water, Untreated		119 119				11.3 ^ 11.3 ^			
		119				11.5 ^			
Dicloran	F	440				7.5.4			
Water, Finished Water, Untreated		119 119				7.5 ^ 7.5 ^			
		119				7.5			
Dicofol p,p'	ı	440				44.0 07.5			
Water, Finished Water, Untreated		119 119				11.3 - 37.5 11.3 - 37.5			
		119				11.5 - 57.5			
<b>Dicrotophos</b> Water, Finished	ı	119				6.0 - 9.0			
Water, Untreated		119				6.0 - 9.0			
		113				0.0 0.0			
Dieldrin Water, Finished	ı	119				15 ^			
Water, Untreated		119				15 ^			240
	_	110				10			210
<b>Difenoconazole</b> Water, Finished	F	179				6.3 ^			
Water, Untreated		179				6.3 ^			
		175				0.0			
<b>Dimethenamid</b> Water, Finished	Н	119	4	3.4	1.0 ^	0.60 ^			
Water, Untreated		118	18	15.3	1.0 - 4.2	0.60 ^			
	ш.и		.0			0.00			
Dimethenamid oxanilic acid (OA) Water, Finished	HM	187	23	12.3	1.0 - 21	0.63 ^			
Water, Untreated		187	67	35.8	1.0 - 21	0.63 ^			
Dimethenamid / Dimethenamid P	Н		-						
Water, Finished		187	13	7.0	4.2 - 17	2.5 ^			
Water, Untreated		187	43	23	4.2 - 510	2.5 ^			
Dimethoate	ı								
Water, Finished	•	306	2	0.7	7.5 - 68	4.5 - 7.5			
•		306				-			

Pesticide / Commodity	Pest. Type	of	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
<b>Dinoseb</b> Water, Finished Water, Untreated	Н	306 305	2	0.7	1.0 - 1.3	0.60 - 0.78 0.60 - 0.78	7,000	7,000	
<b>Diphenamid</b> Water, Finished Water, Untreated	Н	119 119				24 ^ 24 ^		200,000	
<b>Disulfoton</b> Water, Finished Water, Untreated	I	306 306				7.5 - 9.0 7.5 - 9.0		700	
Disulfoton sulfone Water, Finished Water, Untreated	IM	306 306				4.1 - 12 4.1 - 12			
<b>Diuron</b> Water, Finished Water, Untreated	Н	306 305	40 70	13.1 23.0	5.8 - 62 5.8 - 309	3.5 - 9.6 3.5 - 9.6			
Endosulfan I Water, Finished Water, Untreated	I	119 119				22.5 ^ 22.5 ^			220
Endosulfan II Water, Finished Water, Untreated	IM	119 119				18.8 ^ 18.8 ^			220
Endosulfan sulfate Water, Finished Water, Untreated	IM	119 119				30 ^ 30 ^			
Endrin Water, Finished Water, Untreated	I	119 119				30 - 52.5 30 - 52.5	2,000	2,000	86
Epoxiconazole Water, Finished Water, Untreated	F	187 187				6.9 ^ 6.9 ^			
EPTC Water, Finished Water, Untreated	Н	306 306				5.0 - 61.9 5.0 - 61.9			
Esfenvalerate+Fenvalerate Total Water, Finished Water, Untreated	I	187 187				38 ^ 38 ^			
Ethalfluralin Water, Finished Water, Untreated	Н	119 119				60 ^ 60 ^			
Ethion Water, Finished Water, Untreated	I	306 306				2.3 - 25 2.3 - 25			
Ethion mono oxon Water, Finished Water, Untreated	IM	119 119				3.8 ^ 3.8 ^			

Pesticide / Commodity	Pest. Type		Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Ethoprop	ı								
Water, Finished		306				5.3 - 6.0			
Water, Untreated		306				5.3 - 6.0			
Fenamiphos	1								
Water, Finished		119				6.0 - 7.5		700	
Water, Untreated		119				6.0 - 7.5			
Fenamiphos sulfone	IM								
Water, Finished		119				11.3 - 15			
Water, Untreated		119				11.3 - 15			
Fenamiphos sulfoxide	IM								
Water, Finished		119				11.3 - 15			
Water, Untreated		119				11.3 - 15			
	F					<b>-</b>			
Fenarimol Water, Finished	F	119				37.5 ^			
Water, Untreated		119				37.5 ^			
·		113				37.5			
Fenbuconazole	F								
Water, Finished		306				2.4 - 3.0			
Water, Untreated		305				2.4 - 3.0			
Fenitrothion	1								
Water, Finished		306				9.0 - 20			
Water, Untreated		306				9.0 - 20			
Fenitrothion oxygen analog	IM								
Water, Finished		119				6.0 ^			
Water, Untreated		119				6.0 ^			
Fenpropathrin	ı								
Water, Finished		306				14 - 200			
Water, Untreated		306				14 - 200			
Fenthion	1								
Water, Finished	•	306				6.0 - 22			
Water, Untreated		306				6.0 - 22			
	10.4								
Fenthion-O analog	IM	119				11.3 - 15			
Water, Finished Water, Untreated		119				11.3 - 15			
		113				11.5 - 15			
Fenuron	Н	440				45.			
Water, Finished		119				15 ^			
Water, Untreated		118				15 ^			
Fipronil	I								
Water, Finished		119				12 ^			
Water, Untreated		118				12 ^			
Fludioxonil	F								
Water, Finished		119	1	0.8	62.4 ^	37.5 - 125			
Water, Untreated		119				37.5 - 125			
Flufenacet oxanilic acid (OA)	НМ								
Water, Finished		187	24	12.8	3.3 - 7.7	0.75 ^			
Water, Untreated		187	24	12.8	2.5 - 5.7	0.75 ^			

		Number	Samples	% of Samples	Range of				EPA
Pesticide / Commodity	Pest. Type	of Samples	with Detects	with Detects	Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	FAO <sup>3</sup> , ppt <sup>1</sup>
Flumetsulam	Н	-							
Water, Finished		306				6.0 - 20			
Water, Untreated		305				6.0 - 20			
Fluometuron	Н								
Water, Finished		306				1.2 - 4.2		90,000	
Water, Untreated		305				1.2 - 4.2			
Fluvalinate	I								
Water, Finished		187				130 ^			
Water, Untreated		187				130 ^			
Fonofos	1								
Water, Finished		119				7.5 ^		10,000	
Water, Untreated		119				7.5 ^			
Halosulfuron methyl	Н								
Water, Finished		179				3.3 ^			
Water, Untreated		179				3.3 ^			
Heptachlor epoxide	IM								
Water, Finished		119				15 ^	200		
Water, Untreated		119				15 ^			520
Hexaconazole	F								
Water, Finished		187				11 ^			
Water, Untreated		187				11 ^			
Hydroxy atrazine	НМ								
Water, Finished		187	139	74.3	2.0 - 350	1.2 ^			
Water, Untreated		187	133	71.1	2.0 - 360	1.2 ^			
Imazamethabenz acid	Н								
Water, Finished		187				0.60 ^			
Water, Untreated		187				0.60 ^			
Imazamethabenz methyl	Н								
Water, Finished		306	2	0.7	19 - 23	0.31 - 2.0			
Water, Untreated		305				0.31 - 2.0			
lmazamox	Н								
Water, Finished		306				2.4 - 3.1			
Water, Untreated		305				2.4 - 3.1			
Imazapic	Н								
Water, Finished		306	3	1.0	1.5 ^	0.90 - 2.4			
Water, Untreated		305	2	0.7	1.5 ^	0.90 - 2.4			
lmazapyr	Н								
Water, Finished		306	108	35.3	1.5 - 110	0.90 - 1.0			
Water, Untreated		305	102	33.4	1.5 - 55	0.90 - 1.0			
Imazaquin	Н								
Water, Finished		306	2	0.7	1.8 ^	1.1 - 2.4			
Water, Untreated		305	1	0.3	1.8 ^	1.1 - 2.4			
Imazethapyr	Н								
Water, Finished		306	18	5.9	2.0 - 3.9	1.0 - 2.4			

Pesticide / Commodity	Pest. Type	of	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Imidacloprid	ı								
Water, Finished		306	22	7.2	2.5 - 21	1.5 - 6.2			
Water, Untreated		305	52	17.0	2.5 - 29	1.5 - 6.2			
Isofenphos	ı								
Water, Finished		119				4.5 ^			
Water, Untreated		119				4.5 ^			
Lindane (BHC gamma)	I								
Water, Finished		306				11.3 - 20	200		
Water, Untreated		306				11.3 - 20			950
Linuron	Н								
Water, Finished		306				3.0 - 4.5			
Water, Untreated		305				3.0 - 4.5			
Malathion	ı								
Water, Finished		306				10 - 20		500,000	
Water, Untreated		306				10 - 20		,	
Malathion oxygen analog	IM								
Water, Finished	1111	119				6.0 ^			
Water, Untreated		119				6.0 ^			
MCPA	Н								
Water, Finished	• • • • • • • • • • • • • • • • • • • •	306	47	15.4	1.3 - 47	0.78 - 7.2		30,000	
Water, Untreated		305	66	21.6	1.3 - 69	0.78 - 7.2		,	
МСРВ	Н								
Water, Finished		306				6.6 - 21			
Water, Untreated		305				6.6 - 21			
	F					-			
Metalaxyl Water, Finished	Г	306	17	5.6	5.0 - 11	3.0 - 22.5			
Water, Untreated		306	21	6.9	5.0 - 37.5	3.0 - 22.5			
		000		0.0	0.0 07.0	0.0 22.0			
Methidathion Water, Finished	I	119				5.3 ^			
Water, Untreated		119				5.3 ^			
		113				0.0			
Methidathion oxygen analog	IM	440				00 F A			
Water, Finished Water, Untreated		119 119				22.5 ^ 22.5 ^			
		119				22.0			
Methiocarb	ı	440				45.4			
Water, Finished Water, Untreated		119 118				15 ^ 15 ^			
		110				15			
Methomyl	I	000				40.70		000 000	
Water, Finished		306 305				1.8 - 7.3		200,000	
Water, Untreated		305				1.8 - 7.3			
Methoxychlor olefin	IM								
Water, Finished		119				3.8 ^	40,000	40,000	
Water, Untreated		119				3.8 ^			
Methoxychlor Total	I								
		440				7 5 125	40,000	40,000	
Water, Finished Water, Untreated		119 119				7.5 - 125 7.5 - 125	40,000	40,000	

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Metolachlor	Н								
Water, Finished		306	175	57.2	2.5 - 295	1.5 - 3.0		700,000	
Water, Untreated		306	200	65.4	2.5 - 603	1.5 - 3.0			
Metolachlor ethanesulfonic acid (ESA)	НМ								
Water, Finished		306	253	82.7	0.60 - 887	0.36 - 4.8			
Water, Untreated		305	255	83.6	0.60 - 1023	0.36 - 4.8			
Metolachlor oxanilic acid (OA)	НМ								
Water, Finished		306	171	55.9	5.3 - 394	3.2 - 4.8			
Water, Untreated		305	194	63.6	5.3 - 370	3.2 - 4.8			
Metribuzin	Н								
Water, Finished		119				22.5 ^		70,000	
Water, Untreated		119				22.5 ^			
Metsulfuron methyl	Н								
Water, Finished		298	2	0.7	2.5 ^	1.5 - 8.4			
Water, Untreated		297	2	0.7	2.5 - 6.0	1.5 - 8.4			
Mevinphos Total	I								
Water, Finished		119				12 - 75			
Water, Untreated		119				12 - 75			
Molinate	Н	440							
Water, Finished Water, Untreated		119 119				9.8 ^ 9.8 ^			
		119				9.0 ^			
Monuron	Н	440				0.04			
Water, Finished Water, Untreated		119 118				6.0 ^ 6.0 ^			
	_	110				0.0			
Myclobutanil Water, Finished	F	306				2.9 - 9.6			
Water, Untreated		305				2.9 - 9.6			
		303				2.9 - 9.0			
Napropamide Water, Finished	Н	119				24 ^			
Water, Untreated		119				24 ^			
		113				27			
Neburon Water, Finished	Н	306	2	0.7	61 - 100	1.2 - 9.4			
Water, Untreated		305	2	0.7	01 - 100	1.2 - 9.4			
		000				1.2 0.1			
Nicosulfuron Water, Finished	Н	306				1.7 - 4.8			
Water, Finished Water, Untreated		305	1	0.3	11 ^	1.7 - 4.8			
	LI	200	•	0.0		1.0			
Norflurazon Water, Finished	Н	119	11	9.2	31.3 - 96	18.8 ^			
Water, Finished Water, Untreated		119	11	9.2 9.2	31.3 - 90	18.8 ^			
	LIN #			V. <u>L</u>	31.0 100				
Norflurazon desmethyl Water, Finished	НМ	119				37.5 - 250			
		113				JI.J - ZJU			

Pesticide / Commodity	Pest. Type	of	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Omethoate	IM								
Water, Finished		187	3	1.6	0.50 - 3.6	0.30 ^			
Water, Untreated		187				0.30 ^			
Oxadiazon	Н								
Water, Finished		119				15 ^			
Water, Untreated		119				15 ^			
Oxadixyl	F								
Water, Finished		119				48.8 ^			
Water, Untreated		119				48.8 ^			
Oxamyl	ı								
Water, Finished		119				18 - 60	200,000		
Water, Untreated		118				18 - 60	,		
Oxychlordane	IM								
Water, Finished		119				7.5 ^			
Water, Untreated		119				7.5 ^			
Oxydemeton methyl sulfone	IM								
Water, Finished	IIVI	119				22.5 - 45			
Water, Untreated		119				22.5 - 45			
Oxyfluorfen	Н								
Water, Finished	- 11	119				187.5			
Water, Untreated		119				187.5			
Parathion ethyl	ı								
Water, Finished	'	306				15 - 50			
Water, Untreated		306				15 - 50			65
Parathion methyl Water, Finished	I	306				18.8 - 62.5			
Water, Untreated		306				18.8 - 62.5			65
	18.4	000				10.0 02.0			00
Parathion methyl oxygen analog Water, Finished	IM	306				9.8 - 11			
Water, Untreated		306				9.8 - 11			
		300				3.0 - 11			
Parathion oxygen analog	IM	440				7.5.4			
Water, Finished Water, Untreated		119 119				7.5 ^ 7.5 ^			
		113				7.5			
Pebulate	Н	440				00.75			
Water, Finished Water, Untreated		119 119				3.8 - 7.5 3.8 - 7.5			
		119				3.0 - 7.3			
Pendimethalin	Н	440				45.			
Water, Finished		119 110				4.5 ^			
Water, Untreated		119				4.5 ^			
Permethrin cis	IM								
Water, Finished		187				9.0 ^			
Water, Untreated		187				9.0 ^			
Permethrin trans	IM								
Water, Finished		187				7.5 ^			
Water, Untreated		187				7.5 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Phenothrin	1								
Water, Finished		187				27 ^			
Water, Untreated		187				27 ^			
Phenthoate	1								
Water, Finished		119				15 ^			
Water, Untreated		119				15 ^			
Phorate	1								
Water, Finished		306				11.3 - 15			
Water, Untreated		306				11.2 - 15			
Phorate oxygen analog	IM								
Water, Finished		119				5.3 ^			
Water, Untreated		119				5.3 ^			
Phorate sulfone	IM								
Water, Finished		119				6.0 ^			
Water, Untreated		119				6.0 ^			
Phorate sulfoxide	IM								
Water, Finished		119				22.5 - 37.5			
Water, Untreated		119				22.5 - 37.5			
Phosalone	I								
Water, Finished		119				4.5 ^			
Water, Untreated		119				4.5 ^			
Phosphamidon	1								
Water, Finished		119				12 - 40			
Water, Untreated		119				12 - 40			
Picloram	Н								
Water, Finished		306	5	1.6	37 - 84	22 - 30	500,000		
Water, Untreated		305	3	1.0	37 - 89	22 - 30			
Piperonyl butoxide	1								
Water, Finished		119				11.3 - 18.8			
Water, Untreated		119				11.3 - 18.8			
Pirimicarb	1								
Water, Finished		119				37.5 ^			
Water, Untreated		119				37.5 ^			
Pirimiphos methyl	1								
Water, Finished		119				2.3 - 5.3			
Water, Untreated		119				2.3 - 5.3			
Prallethrin	1								
Water, Finished		187				25 ^			
Water, Untreated		187				25 ^			
Profenofos	I								
Water, Finished		119				12 ^			
Water, Untreated		119				12 ^			
Prometon	Н								
Water, Finished		306	270	88.2	0.28 - 19	0.17 - 1.5		400,000	
Water, Untreated		306	275	89.9	0.28 - 36	0.17 - 1.5			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Prometryn Water, Finished	Н	306	3	1.0	0.28 - 76	0.17 - 24			
Water, Untreated		306	21	6.9	0.28 - 0.98	0.17 - 24			
Pronamide Water, Finished Water, Untreated	Н	119 119				22.5 ^ 22.5 ^			
Propachlor Water, Finished Water, Untreated	Н	306 306				0.17 - 5.3 0.17 - 5.3			
Propachlor oxanilic acid (OA) Water, Finished Water, Untreated	НМ	187 187				1.4 ^ 1.4 ^			
Propanil Water, Finished Water, Untreated	Н	306 306	3	1.0	11.2 - 170	6.7 - 24.8 6.7 - 24.8			
Propargite Water, Finished Water, Untreated	I	119 119				90 - 1500 90 - 1500			
Propazine Water, Finished Water, Untreated	Н	306 306	44 70	14.4 22.9	5.5 - 16 5.5 - 28	3.3 - 4.5 3.3 - 4.5		10,000	
Propetamphos Water, Finished Water, Untreated	I	119 119				9.8 - 12 9.8 - 12			
Propham Water, Finished Water, Untreated	Н	119 118				18 ^ 18 ^		100,000	
Propiconazole Water, Finished Water, Untreated	F	306 305	2 9	0.7 3.0	5.7 ^ 10 ^	3.4 - 6.0 3.4 - 6.0			
Propoxur Water, Finished Water, Untreated	I	119 119	-			24.8 ^ 24.8 ^			
Quintozene (PCNB) Water, Finished Water, Untreated	F	119 119				11.3 ^ 11.3 ^			
Resmethrin Water, Finished Water, Untreated	I	187 187				7.8 ^ 7.8 ^			
Siduron Water, Finished Water, Untreated	Н	306 305	2 2	0.7 0.7	23 - 25 4.0 ^	2.1 - 2.4 2.1 - 2.4			
Simazine Water, Finished Water, Untreated	Н	306 306	180 210	58.8 68.6	1.2 - 484 1.2 - 1143	0.71 - 3.8 0.71 - 3.8	4,000		

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt <sup>1</sup>	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> , ppt <sup>1</sup>
Sulfometuron methyl Water, Finished	Н	306	5	1.6	3.2 - 9.1	1.9 - 12			
Water, Untreated		305	24	7.9	3.2 - 59	1.9 - 12			
Sulfotep	1								
Water, Finished	•	119				4.5 - 6.0			
Water, Untreated		119				4.5 - 6.0			
Sulprofos	1								
Water, Finished Water, Untreated		119 119				6.0 ^ 6.0 ^			
Tebuconazole	F					0.0			
Water, Finished	•	306	2	0.7	150 ^	3.5 - 4.8			
Water, Untreated		305				3.5 - 4.8			
Tebupirimfos	1								
Water, Finished		119				5.3 - 7.5			
Water, Untreated		119				5.3 - 7.5			
Tebupirimfos oxygen analog	IM								
Water, Finished		119				4.5 - 9.0			
Water, Untreated		119				4.5 - 9.0			
Tebuthiuron	Н								
Water, Finished		306	164	53.6	0.35 - 16	0.21 - 0.60		500,000	
Water, Untreated		305	204	66.9	0.35 - 16	0.21 - 0.60			
Tecnazene	Р	440				40.0.4			
Water, Finished Water, Untreated		119 119				18.8 ^ 18.8 ^			
Tefluthrin	1					10.0			
Water, Finished	'	187				2.1 ^			
Water, Untreated		187				2.1 ^			
Terbacil	Н								
Water, Finished		306				1.6 - 22.5		90,000	
Water, Untreated		306				1.6 - 22.5			
Terbufos	1								
Water, Finished		306				6.3 - 22.5		400	
Water, Untreated		306				6.3 - 22.5			
Terbufos sulfone	IM								
Water, Finished Water, Untreated		119 119				4.5 ^ 4.5 ^			
		119				4.5 ^			
Terbufos-O analog Water, Finished	IM	119				6.0 ^			
Water, Finished Water, Untreated		119				6.0 ^			
Tetrachlorvinphos	1	-				-			
Water, Finished	'	306				6.0 - 7.5			
Water, Untreated		306				6.0 - 7.5			
Tetraconazole	F								
Water, Finished		306	1	0.3	3.2 ^	1.8 - 1.9			
Water, Untreated		305				1.8 - 1.9			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL,	EPA HA <sup>2</sup> , ppt <sup>1</sup>	EPA FAO <sup>3</sup> ppt <sup>1</sup>
Tetradifon	ı								
Water, Finished		306				7.2 - 37.5			
Water, Untreated		306				7.2 - 37.5			
Tetramethrin	1								
Water, Finished		187				28 ^			
Water, Untreated		187				28 ^			
Thifensulfuron	Н								
Water, Finished		187				8.9 ^			
Water, Untreated		187	1	0.5	14.8 ^	8.9 ^			
Thiobencarb	Н								
Water, Finished		306	2	0.7	71 - 190	7.7 - 18			
Water, Untreated		305				7.7 - 18			
Tri Allate	Н								
Water, Finished		306				12 - 24.8			
Water, Untreated		306				12 - 24.8			
Triadimefon	F								
Water, Finished		306				1.3 - 8.4			
Water, Untreated		305				1.3 - 8.4			
Triadimenol	F								
Water, Finished		187				20 ^			
Water, Untreated		187				20 ^			
Triasulfuron	Н								
Water, Finished		187				3.1 ^			
Water, Untreated		187	1	0.5	5.2 ^	3.1 ^			
Triclopyr	Н								
Water, Finished		306	115	37.6	2.7 - 76	1.6 - 6.0			
Water, Untreated		305	122	40.0	2.7 - 100	1.6 - 6.0			
Trifluralin	Н								
Water, Finished		119				1.5 ^		10,000	
Water, Untreated		119				1.5 ^			
Triticonazole	F								
Water, Finished		187				14 ^			
Water, Untreated		187				14 ^			

#### **NOTES**

#### Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

P = Plant Growth Regulator

<sup>&</sup>lt;sup>1</sup> = EPA MCL, HA, and FAO values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

 $<sup>^{2}\,</sup>$  = EPA Health Advisory values shown are for lifetime exposure.

 $<sup>^{\</sup>rm 3} =$  The FAO value applies to ambient water rather than drinking water.

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

## **Appendix H**

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

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

As shown in Appendix H, fruit and vegetable, rice, beef, and catfish samples originated from 45 States, 1 U.S. territory, and 22 foreign countries. There were 40 samples from mixed national origins (multiple countries). There were 455 domestic and 2 imported samples from unknown States and countries, respectively. There were an additional 113 samples from unknown origins. Overall, for all samples except groundwater and drinking water, 78.7 percent were from U.S. sources, 20.1 percent were imports, 0.3 percent were of mixed national origin, and 0.9 percent were of unknown origin.

# APPENDIX H. SAMPLE ORIGIN BY STATE OR COUNTRY <sup>1</sup> (Determined by Grower, Packer, or Distributor)

Part 1. Domestic Samples

Part 1. Domes	ile (	San	ipie	S			Fres	h F&\	/						I	Proc	essed	d F&V		Oth	er Coi	mmod	lities	# of	% of
States = 45	AP	AS	СВ	CL	CU	GO	GR			PE	РО	SP	ST	SW	cs			TP	ZB	ВА		FC	RI	Samples	Total
Alabama																						18	1	19	0.2
Arizona			4		13				2		2	1			2		2	1	2	4	4	10		37	0.2
Arkansas			7		13				2		1	'		7	2	12	27	34	9	-	7	9	42	143	1.2
California	24	74	145	90	22	55	334	258	580	101	103	519	570	227	4	20	40	246	24	12	12	55 55	59	3574	30.1
Colorado	24	74	20	90	22	2	334	236	360	2	36	8	370	221	4	1	1	240	24	20	20	2	59	114	1.0
Connecticut			20			_		_		_	50	1				'	'	1		20	20	-		2	<0.1
Delaware			3								3	'						'						6	0.1
Florida	1	6	115	9	91	2	4	5	46		39	10	90	5		6	9	19	4			11	19	491	4.1
Georgia	ı .	Ü	21	3	43	_	7	0	40		00	10	50	J		U	5	2	7			l ''	13	66	0.6
Idaho	5		21		40						185				3	8	10	15	1	7	7	1	2	244	2.1
Illinois	Ĭ		2					3			100	1			3	16	34	47	13	2	2	l '	25	148	1.2
Indiana	3		3					3				'			٦	10	J <del>-1</del>	3	1	1	1		23	12	0.1
lowa	3		3															3	'	19	19			38	0.1
Kansas																	1		1	56	56			114	1.0
											1	6		2			'		•	3	3				0.1
Kentucky Louisiana											1	6		2 51						٦	٥	12		15 63	0.1
Maine	1										8	2		31			2	5				5	1	24	0.3
	11		10	2			1	1	8	2	10	15	6	9	4	3	11	19	6			5	6	140	1.2
Maryland Massachusetts	2		13	2	8		'	8	0	2	2	35	O	9	4	3	11	19	1			25	0	73	0.6
			4.4		22		2	0		1				2	_	10	22	25		1	4		40		
Michigan Minnesota	32	8	11 4		32 2	6	3 4	7	13	1	30 17	27 2	2	2 10	6 3	13 25	22 20	35 12	7 11	1	1 12	10	18 13	265 171	2.2 1.4
	_				2		4	′	13		17	2	2		3	25	20	12	11	12	12	400	13		
Mississippi			1								,			50						١,	,	132	_	183	1.5
Missouri Montana											1			12				4		1 2	1		6	25 4	0.2 <0.1
											2					4	4	110					4		
Nebraska											3					1	1	140		40	40		1	226	1.9
Nevada							1				13						_	•						14	0.1
New Hampshire			_	_								_		_	١.		2	2	1			_ ا		5	<0.1
New Jersey		4	2	9	11	4						8		3	1	18	33	20	19			5	17	154	1.3
New Mexico					_			_		_	4	_				_			_	3	3	1	١	11	0.1
New York	59	1	18		7	1		2	1	2	25	5		4	10	8	16	15	9	1	1	12	11	208	1.8
North Carolina	1		1		7			2			3			214		2	3	5	1	1	1	8	4	253	2.1
North Dakota				•	47			•			9	•		_		•	0.4	40	•	1	1		40	11	0.1
Ohio	8		11	2	17	11	1	9		3	18	6		5	9	8	21	46	6	4	4	20	13	222	1.9
Oklahoma			_					_				_			_	_	_	_	_	8	8		١	16	0.1
Oregon	1		8	1		1		3		92	19	3			2	2	5	9	3	5	5	1	11	171	1.4
Pennsylvania	5	1	1	1	1		1	9		2	13	8			2	9	14	12	13	4	4	2	9	111	0.9
Puerto Rico			_			_																	1	1	<0.1
South Carolina			2			3								1							_			6	0.1
South Dakota																				8	8			16	0.1
Tennessee														1	1	16	52		34	1	1			106	0.9
Texas	21		25	22	20	3	12	5	37	18	52	23	7	44	10	6	32	23	15	52	52	21	120	620	5.2
Utah																				1	1			2	<0.1
Virginia	2		1								2	5					1	2		1	1			15	0.1
Washington	506	13	5	3	14		5	2		384	94	10			2	3	1	9		6	6	18	4	1085	9.1
West Virginia	1																							1	<0.1
Wisconsin	1		1								23	7					2	1	3	2	2	1		43	0.4
Unknown State	14	13	144	10	46	4	16	2	5	20	16	10	3	84	2	2	3	5		11	11	30	4	455	3.8
No. of Domestic	700	120	561	149	334	92	382	318	692	627	732	712	678	731	66	179	365	732	184	289	289	404	387	9,723	
% of Total	94	16	84	81	45	16	51	82	93	84	98	96	91	99	88	96	98	99	99	99	99	74	89		78.7

Part 2. Imported Samples

-		Fresh F&V												Proc	essec	F&V		Othe	er Coi	mmod	lities	# of	% of		
Countries = 22	AP	AS	СВ	CL	CU	GO	GR	LT	OG	PE	РО	SP	ST	SW	cs	KB	NB	TP	ZB	ВА	ВМ	FC	RI	Samples	Total
Argentina		3								53														56	0.5
Australia									14															14	0.1
Brazil							8															2		10	0.1
Canada	6	6	2	2	22	9			1	1	9	6			9	6	1		1	3	3			87	0.7
Chile	20	4					286		10	54														374	3.2
China																						93		93	0.8
Costa Rica				1																				1	<0.1
Dominican Republic					1																			1	<0.1
Ecuador		2																						2	<0.1
Egypt																							1	1	<0.1
Guatemala					1	8																		9	0.1
Honduras					19																			19	0.2
India																							18	18	0.2
Italy																		2						2	<0.1
Mexico		183	67	29	354	441	59	41	5			20	65				6		1					1271	10.7
New Zealand	15									3														18	0.2
Peru		420					6						1											427	3.6
South Africa									16	3														19	0.2
Spain									1															1	<0.1
Taiwan																						18		18	0.2
Thailand																						4	24	28	0.2
Vietnam																						7		7	0.1
Unknown Country					1																		1	2	<0.1
No. of Imports	41	618	69	32	398	458	359	41	47	114	9	26	66	0	9	6	7	2	2	3	3	124	44	2,478	
% of Total	6	83	10	17	53	82	48	11	6	15	1	3	9	0	12	3	2	< 1	1	1	1	23	10		20.1

## Part 3. Mixed National Origin Samples

		Fresh F&V													Proces	ssed	F&V		Oth	er Coi	mmod	lities	# of	% of	
	AP	AS	СВ	CL	CU	GO	GR	LT	OG	PE	РО	SP	ST	SW	CS	KB I	NΒ	TP	ZB	ВА	ВМ	FC	RI	Samples	Total
Argentina / Uruguay /	USA																						2	2	<0.1
Canada / USA																1								1	<0.1
China / Taiwan																						7		7	0.1
Mexico / USA								27				3												30	0.3
No. of Mixed National	Origin	Sam	ples					27				3				1						7	2	40	
% of Total								6.98				<1				1						1	<1		0.3

Part 4. Unknown Origin Samples

					-		Fres	h F&\	/							Proc	essec	F&V		Oth	er Cor	nmod	lities	# of	% of
	AP	AS	СВ	CL	CU	GO	GR	LT	OG	PE	РО	SP	ST	sw	CS	KB	NB	TP	ZB	ВА	ВМ	FC	RI	Samples	Total
Unknown Origin	3	6	38	3	12	8	3	1	5	2	3	3		8				8				8	2	113	
% of Total	< 1	1	6	2	2	1	< 1	< 1	1	< 1	< 1	< 1		1				1				1	< 1		0.9

Sample Totals: 744 744 668 184 744 558 744 387 744 743 744 744 739 75 186 372 742 186 292 292 543 435 12,354

### **NOTE**

<sup>&</sup>lt;sup>1</sup> Excludes groundwater and untreated/finished drinking water samples.

Commodity Legend		
AP = Apples	FC = Catfish	PO = Potatoes
AS = Asparagus	GO = Green Onions	RI = Rice
BA = Beef, Adipose	GR = Grapes	SP = Spinach
BM - Beef, Muscle	KB = Kidney Beans, Canned	ST = Strawberries
CB = Sweet Corn, Fresh (On-the-Cob)	LT = Lettuce (Organic)	SW = Sweet Potatoes
CL = Cilantro	NB = Pinto Beans, Canned	TP = Tomato Paste
CS = Sweet Corn, Frozen	OG = Oranges	ZB = Garbanzo Beans, Canned
CU = Cucumbers	PE = Pears	

## **Appendix I**

## Import vs. Domestic Pesticide Residue Comparisons

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

Appendix I compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries. Residue data for domestic cucumbers are compared with data for samples originating in Mexico for 2009. Residue data for grapes from the United States are compared with data for samples originating in Chile for 2009. Only residues detected in more than 10 percent of all samples are included in each comparison. All pesticides detected were registered in the United States. However, the profiles of residue findings were markedly different in the United States samples versus samples from these exporting countries. The differences in residue detections between countries were likely due to the pesticides used in response to pest pressures based on differing environmental, climatic, and growing conditions.

## Appendix I. Import vs. Domestic Pesticide Residue Comparisons

# 2009 Distribution of Residues for Cucumber Samples Originating in Mexico vs. United States

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

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Carbendazim (MBC)	United States	279	45	16.1
, ,	Mexico	213	41	19.2
Cyromazine	United States	279	7	2.5
,	Mexico	213	43	20.2
Endosulfan I	United States	334	66	19.8
	Mexico	354	141	39.8
Endosulfan II	United States	334	64	19.2
	Mexico	354	110	31.1
Endosulfan sulfate	United States	334	66	19.8
	Mexico	354	138	39.0
Metalaxyl	United States	334	44	13.2
,	Mexico	354	86	24.3
Oxamyl	United States	334	39	11.7
•	Mexico	354	44	12.4
Oxamyl oxime	United States	55	10	18.2
•	Mexico	141	28	19.9
Thiamethoxam	United States	334	38	11.4
	Mexico	354	39	11.0

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

# 2009 Distribution of Residues for Grape Samples Originating in Chile vs. United States

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

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Boscalid	United States	382	141	36.9
	Chile	286	127	44.4
Cyprodinil	United States	382	75	19.6
	Chile	286	90	31.5
Fenhexamid	United States	270	49	18.1
	Chile	201	142	70.6
Fludioxonil	United States	382	6	1.6
	Chile	286	131	45.8
Imidacloprid	United States	382	172	45.0
	Chile	286	172	60.1
Iprodione	United States	382	16	4.2
	Chile	286	104	36.4
Methoxyfenozide	United States	382	139	36.4
	Chile	286	74	25.9
Myclobutanil	United States	382	104	27.2
	Chile	286	125	43.7
Pyraclostrobin	United States	382	190	49.7
	Chile	286	135	47.2
Pyrimethanil	United States	382	67	17.5
	Chile	286	31	10.8
Quinoxyfen	United States	112	26	23.2
	Chile	85	32	37.6
Tebuconazole	United States	382	62	16.2
	Chile	286	85	29.7
Trifloxystrobin	United States	382	144	37.7
	Chile	286	53	18.5

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

## **Appendix J**

## **Pesticide Residues by Commodity**

(Pairs with Residue Detections in at Least 10 Percent of Samples)

Appendix J shows 104 commodity/pesticide pairs (including metabolites, isomers, and degradates) with detections in at least 10 percent of the samples tested. The data shown include the range and mean 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 2009 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

EPA tolerances as published in 40 CFR Part 180 are expressed in parts per million (ppm). Because beef and catfish residues are expressed in parts per billion (ppb), EPA tolerances have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

# APPENDIX J. PESTICIDE RESIDUES BY COMMODITY (Pairs With Residue Detections in at Least 10 Percent of Samples)

			% of	Number of	Number of	Range of	Mean of	EPA
		Pest.	Samples with	Samples	Samples with	Detections,	Detections,	Tolerance,
Со	mmodity / Pesticide	Type	Detections	Analyzed	Detections	ppm	ppm	ppm
1	Apples							
-	Acetamiprid	ı	33.1	744	246	0.002 - 0.11	0.021	1.0
	Azinphos methyl	ı	17.9	744	133	0.005 - 0.73	0.041	1.5
	Boscalid	F	18.1	744	135	0.005 - 0.16	0.041	3.0
	Carbendazim (MBC)	F	19.9	534	106	0.002 - 0.19	0.033	7.0
	Chlorantraniliprole	I	28.8	534	154	0.003 - 0.095	0.01	0.30
	Diphenylamine (DPA)	F	73.7	744	548	0.005 - 5.3	0.35	10
	Endosulfan II	IM	12.7	739	94	0.007 - 0.19	0.023	1.0
	Fenpyroximate	Α	13.1	534	70	0.002 - 0.12	0.015	0.40
	Formetanate hydrochloride	I	14.7	744	109	0.0002 - 0.026	0.003	0.50
	Imidacloprid	I	16.9	744	126	0.002 - 0.051	0.005	0.5
	Methoxyfenozide	I	12.5	744	93	0.002 - 0.11	0.008	1.5
	Phosmet	1	14.0	744	104	0.005 - 1.2	0.062	10
	Pyraclostrobin	F	16.0	744	119	0.002 - 0.11	0.02	1.5
	Pyrimethanil	F	57.4	744	427	0.002 - 6.0	0.48	14
	Tetrahydrophthalimide (THPI)	FM	15.9	744	118	0.033 - 0.92	0.25	25.0
	Thiabendazole	F	75.4	744	561	0.002 - 5.9	0.38	5.0
2	Cilantro							
	Chlorantraniliprole	1	12.5	184	23	0.003 - 0.036	0.007	NT
	Chlorpyrifos	1	37.0	184	68	0.002 - 0.31	0.020	0.1
	DCPA	Н	73.4	184	135	0.002 - 0.16	0.014	5.0
	DDD p,p'	IM	14.2	106	15	0.002 - 0.002	0.002	NT
	DDE p,p'	IM	19.6	184	36	0.0065 - 0.032	0.013	NT
	DDT o,p'	1	25.5	184	47	0.002 - 0.006	0.002	NT
	Diazinon	I	13.0	184	24	0.003 - 1.0	0.057	NT
	Imidacloprid	I	25.5	184	47	0.002 - 0.040	0.008	8.0
	Linuron	Н	15.2	184	28	0.010 - 0.36	0.060	NT
3	Cucumbers							
	Carbendazim (MBC)	F	16.5	534	88	0.002 - 0.10	0.010	1.0
	Cyromazine	R	10.7	534	57	0.004 - 0.077	0.017	1.0
	Endosulfan I	I	30.4	744	226	0.005 - 0.21	0.023	1.0
	Endosulfan II	IM	25.1	744	187	0.007 - 0.13	0.017	1.0
	Endosulfan sulfate	IM	29.2	744	217	0.007 - 0.11	0.034	1.0
	Metalaxyl	F	19.1	744	142	0.010 - 0.49	0.033	1.0
	Oxamyl	I	11.3	744	84	0.006 - 1.4	0.096	2.0
	Oxamyl oxime	IM	18.6	210	39	0.020 - 0.64	0.099	2.0
	Thiamethoxam	I	11.6	744	86	0.003 - 0.19	0.020	0.2
4	Grapes							
	Boscalid	F	37.2	744	277	0.005 - 0.63	0.076	3.5
	Cyprodinil	F	22.4	744	167	0.015 - 2.3	0.19	2.0
	Fenhexamid	F	36.3	534	194	0.002 - 1.4	0.16	4.0
	Fludioxonil	F	18.5	744	138	0.001 - 0.86	0.074	1.0
	Imidacloprid	1	52.6	744	391	0.002 - 1.1	0.082	1.0
	-							

			% of	Number of	Number of	Range of	Mean of	EPA
		Pest.	Samples with	Samples	Samples with	Detections,	Detections,	Tolerance,
Cor	mmodity / Pesticide	Туре	Detections	Analyzed	Detections	ppm	ppm	ppm
	Methoxyfenozide	1	29.2	744	217	0.001 - 0.45	0.053	1.0
	Myclobutanil	F	35.5	744	264	0.001 - 0.54	0.029	1.0
	Pyraclostrobin	F	45.3	744	337	0.001 - 0.51	0.043	2.0
	Pyrimethanil	F	13.2	744	98	0.001 - 1.7	0.26	5.0
	Quinoxyfen	F	27.6	210	58	0.003 - 0.11	0.012	0.60
	Tebuconazole	F	21.4	744	159	0.003 - 0.65	0.044	5.0
	Trifloxystrobin	F	28.4	744	211	0.003 - 0.31	0.019	2.0
5	Green Onions							
	Azoxystrobin	F	22.9	558	128	0.002 - 0.38	0.048	7.5
	Cyromazine	R	11.3	558	63	0.008 - 0.23	0.032	3.0
	DCPA	Н	36.6	558	204	0.002 - 0.13	0.011	1.0
	Spinosad	I	11.4	542	62	0.002 - 0.037	0.006	2.0
6	Lettuce, Organic							
	Spinosad	I	18.3	387	71	0.002 - 0.40	0.033	8.0
7	Oranges							
	Imazalil	F	82.1	744	611	0.005 - 0.57	0.053	10.0
	Thiabendazole	F	67.5	744	502	0.005 - 0.38	0.061	10.0
8	Pears							
	Acetamiprid	I	41.1	742	305	0.012 - 0.28	0.058	1.0
	Azinphos methyl	I	12.3	742	91	0.015 - 0.18	0.039	1.5
	Fenpyroximate	Α	10.8	742	80	0.025 - 0.080	0.032	0.40
	Fludioxonil	F	22.0	742	163	0.025 - 0.79	0.19	5.0
	Formetanate hydrochloride	I	12.5	742	93	0.0002 - 0.033	0.002	0.50
	o-Phenylphenol	F	25.9	742	192	0.017 - 10.6	0.51	25.0
	Pyrimethanil	F	33.3	742	247	0.082 - 6.5	0.99	14
9	Potatoes							
	Chlorpropham	Н	80.1	744	596	0.010 - 23	2.5	30
	Flutolanil	F	11.0	534	59	0.003 - 0.032	0.009	0.20
	Imidacloprid	ı	25.4	744	189	0.003 - 0.088	0.012	0.40
10	Rice							
	Piperonyl butoxide	ı	16.8	435	73	0.010 - 0.46	0.049	20
11	Spinach	_	40.5	744	00	0.005 0.070	0.040	00
	Boscalid	F	12.5	744	93	0.005 - 0.073	0.013	60
	Cypermethrin		20.8	744	155	0.050 - 3.2	0.52	10.00
	DDE p,p'	IM	20.8	298	62	0.007 - 0.035	0.010	0.5
	Fenamidone	F	14.8	210	31	0.005 - 7.8	1.5	60 3.5
	Imidacloprid	11.4	42.5	744	316	0.010 - 0.64	0.053	3.5
	Permethrin cis Permethrin Total	IM I	50.5 52.1	210 534	106 278	0.025 - 6.0 0.10 - 19	1.0	20 20
	Permethrin trans	I IM	52.1 50.5	210	278 106		2.5 1.2	20 20
						0.025 - 7.6		
	Spinosad A Spinosad D	IM IM	35.5 25.3	744 744	264 188	0.002 - 1.1 0.002 - 0.28	0.088 0.028	8.0 8.0
	Opiniosau D	IIVI	20.3	1 <del>4 4</del>	100	0.002 - 0.28	0.020	0.0

		Doot	% of	Number of	Number of	Range of	Mean of	EPA
Cor	mmodity / Pesticide	Pest. Type	Samples with Detections	Samples Analyzed	Samples with Detections	Detections,	Detections,	Tolerance,
		туре	Detections	Allalyzeu	Detections	ppm	ppm	ppm
12	Strawberries Acetamiprid		20.4	744	152	0.001 - 0.67	0.059	0.60
	Azoxystrobin	F	10.3	744 744	77	0.001 - 0.07	0.039	10
	Bifenazate	A	14.1	744 744	105	0.002 - 0.98	0.095	1.5
	Bifenthrin	I	22.4	544	122	0.009 - 0.54	0.064	3.0
	Boscalid	F	36.3	744	270	0.005 - 1.8	0.004	4.5
	Captan	F	42.6	744	317	0.020 - 7.5	0.74	20.0
	Carbendazim (MBC)	F	28.8	534	154	0.002- 0.93	0.10	5.0
	Cyprodinil	F	29.6	744	220	0.015 - 1.6	0.24	5.0
	Fenhexamid	F	39.3	534	210	0.002 - 2.2	0.26	3.0
	Fludioxonil	F	35.3	744	263	0.001 - 0.96	0.10	2.0
	Imidacloprid	i	14.0	744	104	0.002 - 0.080	0.012	0.50
	Malathion	ı	21.5	744	160	0.004 - 0.35	0.059	8
	Malathion oxygen analog	IM	10.3	744	77	0.003 - 0.027	0.006	8
	Methoxyfenozide	ı	10.3	744	77	0.002 - 0.71	0.041	1.5
	Myclobutanil	F	29.7	744	221	0.001 - 0.66	0.061	0.50
	Propiconazole	F	10.3	534	55	0.004 - 0.47	0.074	1.3
	Pyraclostrobin	F	43.5	744	324	0.001 - 0.61	0.079	1.2
	Pyrimethanil	F	36.8	744	274	0.001 - 5.7	0.33	3.0
	Quinoxyfen	F	13.8	210	29	0.003 - 0.090	0.026	0.90
	Spinosad A	IM	11.3	744	84	0.001 - 0.20	0.021	1.0
	Spiromesifen	- 1	12.9	210	27	0.005 - 0.21	0.058	2.0
	Tetrahydrophthalimide (THPI)	FM	55.2	210	116	0.15 - 2.4	0.56	20.0
	Triflumizole	F	10.9	744	81	0.001 - 0.41	0.03	2.0
13	Sweet Potatoes							
	Dicloran	F	40.2	739	297	0.006 - 3.7	0.36	10
14	Beef, Adipose (in parts-per-bill	ion)				(ppb)	(ppb)	(ppb)
	Cyhalothrin, Total (Cyhalothrin-L					-		
	+ R157836 epimer)	I	11.6	292	34	1.0 - 33.9	4.4	3000
	DDE p,p'	IM	23.6	292	69	2.1 - 103	12	5000
15	Catfish (in parts-per-billion)					(ppb)	(ppb)	(ppb)
	Bifenthrin	I	16.2	543	88	1.0 - 6.3	2.1	50
	DDD p,p'	IM	29.8	543	162	1.0 - 115	12.3	5000
	DDE p,p'	IM	65.0	543	353	1.0 - 2310	29.4	5000

#### **NOTES**

NT No tolerance established.

## Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

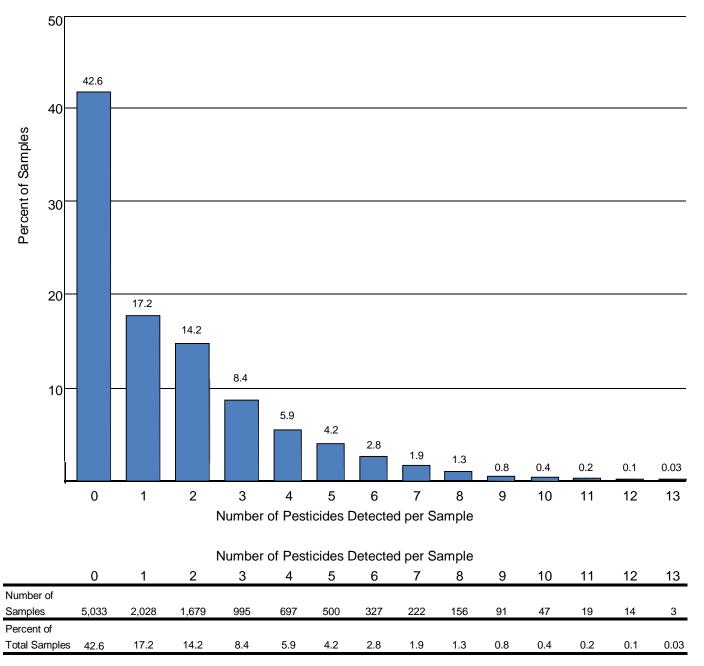
## Appendix K

# **Number of Pesticides Detected per Sample**

Appendix K shows the percentage of samples versus the number of pesticides detected per sample, excluding catfish, groundwater, and drinking water samples. The graph and data on page 1 show the overall number of samples and percentages (of total number of samples analyzed) for each detection group across all commodities. The table on page 2 shows the number of pesticides detected by individual commodity. For the 11,811 samples analyzed, 42.6 percent of the samples had no detectable pesticides, 17.2 percent had 1 pesticide, and 40.2 percent of the samples had more than 1 pesticide.

This appendix reports the number of distinct pesticides rather than residues, as was reported in summaries prior to 2003. A parent compound and its metabolites are reported as a single pesticide. For example, a single application of the pesticide endosulfan may result in residues of the parent compound endosulfan I, its endosulfan II isomer, and its endosulfan sulfate metabolite. Thus, three residue detections could result from the use of a single pesticide. In the 2002 and previous summaries, the corresponding appendix would have counted these results as three distinct residues, while this appendix counts the findings as just one distinct pesticide.

# APPENDIX K. SAMPLES vs. NUMBER OF PESTICIDES<sup>1</sup> DETECTED PER SAMPLE<sup>2</sup>



#### **TOTAL NUMBER OF SAMPLES = 11,811**

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

#### **NOTES**

Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues," as was reported in summaries prior to 2003. For example, a sample with positive detections for Endosulfan I, II, and sulfate would have been counted as three residues detected in the 2002 Appendix L. That same sample would be counted as just one pesticide detected in this appendix.

 $<sup>^{\</sup>rm 2}$  Excludes catfish, groundwater, and finished/untreated drinking water samples.

## APPENDIX K. SAMPLES vs. NUMBER OF PESTICIDES DETECTED PER SAMPLE

			Num	ber of	Pesti	cides <sup>1</sup>	Detec	eted p	er Sar	nple <sup>2</sup>				
Commodity (# of samples)	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Fresh Fruit and Vegetables:						Per	cent							
Apples (744)	2.3	5.8	7.9	13.4	15.9	17.2	13.8	9.7	7.7	3.5	1.9	0.7	0.3	
Asparagus (744)	90.1	7.7	2.2	0.1										
Cilantro (184)	6.0	17.4	26.1	19.6	12.0	7.6	4.9	3.8	1.1	1.6				
Cucumbers (744)	15.1	24.1	22.6	16.8	12.4	5.6	2.3	1.1	0.1					
Grapes (744)	2.8	8.9	12.5	16.9	16.4	14.7	9.9	7.1	4.4	3.0	2.0	0.3	0.8	0.3
Green Onions (558)	34.1	28.7	22.0	9.9	4.5	0.2	0.7							
Lettuce, Organic (387)	80.4	17.8	1.8											
Oranges (744)	8.2	30.1	55.5	5.6	0.4	0.1								
Pears (743)	20.5	16.8	22.5	19.1	11.8	7.3	1.9		0.1					
Potatoes (744)	7.7	36.6	33.2	16.1	5.0	8.0	0.5	0.1						
Spinach (744)	9.5	23.7	27.7	20.3	8.9	5.4	2.0	1.3	0.9	0.3				
Strawberries (744)	4.3	5.1	9.0	12.2	16.5	14.1	11.7	9.5	7.4	5.1	2.4	1.6	0.8	0.1
Sweet Corn, Fresh (668)	99.9	0.1												
Sweet Potatoes (739)	52.2	45.6	1.9	0.3										
Processed Fruit and Vegetables:														
Garbanzo Beans, Canned (186)	99.5	0.5												
Kidney Beans, Canned (186)	98.9	1.1												
Pinto Beans, Canned (372)	97	3.2												
Sweet Corn, Frozen (75)	100													
Tomato Paste (742)	96	3.4	0.4											
Percent of Total Samples	39.6	16.8	15.0	9.2	6.4	4.6	3.1	2.0	1.4	0.88	0.44	0.19	0.13	0.03
Actual Number of Samples	4,275	1,817	1,622	995	695	501	333	221	154	95	47	20	14	3
TOTAL NUMBER OF FRUIT & VE	GETABI	_E SAI	<b>MPLES</b>	= 10,7	792									
Grain Product:														
Rice (435)	73.6	19.8	6.0	0.7										
Actual Number of Samples	320	86	26	3										
Beef Product:														
Beef Adipose (292)	60.3	33.2	5.8	0.3	0.3									

#### **NOTES**

Beef Muscle (292)

Actual Number of Samples

1.7

22

1

1

89.4

437

8.9

123

<sup>&</sup>lt;sup>1</sup> Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues."

 $<sup>^{2}\,</sup>$  Excludes the 543 catfish, 278 groundwater, and 612 drinking water samples.

## Appendix L

# Fruit and Vegetable Samples Reported to the U.S. Food and Drug Administration as Exceeding the Tolerance or Without Established Tolerance

(per Code of Federal Regulations, Title 40, Part 180)

Appendix L shows 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 2009, a total of 397 samples with 635 residues were reported to the FDA as Presumptive Tolerance Violations.

Catfish and water are not included in this appendix because residue levels, if found, are mainly the result of environmental contamination or transfer, rather than from registered agricultural uses on the commodity. Residues exceeding the tolerance were detected in 46 samples including 2 apple samples, 6 asparagus samples, 1 cilantro sample, 3 cucumber samples, 2 grape samples, 1 green onion sample, 1 pear sample, 16 potato samples, 6 spinach samples, 4 samples of strawberries, and 4 sweet potato samples. Of those 46 samples, 14 were reported as imported produce.

In addition, 357 samples were found to have residues for which no tolerance was established, including 341 fresh fruit and vegetable samples, 1 processed fruit/vegetable sample, 10 samples of rice, and 5 beef adipose samples.

- 241 samples contained 1 residue for which no tolerance was established.
- 67 samples contained 2 residues for which no tolerance was established.
- 14 samples contained 3 residues for which no tolerance was established.
- 17 samples contained 4 residues for which no tolerance was established.
- 11 samples contained 5 residues for which no tolerance was established.
- 3 samples contained 6 residues for which no tolerance was established.
- 2 samples contained 7 residues for which no tolerance was established.
- 2 samples contained 8 residues for which no tolerance was established.

Six of the 357 samples also contained 1 residue each that exceeded an established tolerance.

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

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

# APPENDIX L. SAMPLES REPORTED TO FDA AS EXCEEDING THE TOLERANCE OR WITHOUT ESTABLISHED TOLERANCE

(per Code of Federal Regulations, Title 40, Part 180)

## **Residues Exceeding Established Tolerance**

	nmodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
1	Apples / Thiabendazole	0.003	5.9	5.0	U.S.
2	Apples / Thiabendazole	0.003	5.7	5.0	U.S.
3	Asparagus / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.025	0.044	0.01	Ecuador
4	Asparagus / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.025	0.041	0.01	Ecuador
5	Asparagus / Methamidophos	0.08	0.31	0.02	Peru
6	Asparagus / Methamidophos	0.08	0.13	0.02	Peru
7	Asparagus / Methamidophos	0.08	0.095	0.02	Peru
8	Asparagus / Metribuzin	0.02	1.7	0.1	Mexico
9	Cilantro / Chlorpyrifos	0.001	0.31	0.1	Costa Rica
10	Cucumbers / Acephate	0.002	0.034	0.02	U.S.
11	Cucumbers / Chlorfenapyr	0.002	0.022	0.01	Dominican Rep.
12	Cucumbers / Captan (detected as THPI) 1	0.02	0.46	0.05	Mexico
13	Grapes / Cyprodinil	0.009	2.3	2.0	Chile
14	Grapes / Imidacloprid	0.002	1.1	1.0	Chile
15	Green Onions / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.006	0.027	0.01	Canada
16	Pears / Permethrin cis/trans <sup>2</sup>	0.024	0.55	0.05	U.S.
17	Potatoes / Azoxystrobin	0.003	0.41	0.03	U.S.
18	Potatoes / Azoxystrobin	0.003	0.36	0.03	U.S.
19	Potatoes / Azoxystrobin	0.002	0.23	0.03	U.S.
20	Potatoes / Azoxystrobin	0.002	0.19	0.03	U.S.
21	Potatoes / Azoxystrobin	0.002	0.16	0.03	U.S.
22	Potatoes / Azoxystrobin	0.002	0.14	0.03	U.S.
23	Potatoes / Azoxystrobin	0.002	0.12	0.03	U.S.
24	Potatoes / Azoxystrobin	0.002	0.12	0.03	U.S.
25	Potatoes / Azoxystrobin	0.002	0.11	0.03	U.S.
26	Potatoes / Azoxystrobin	0.002	0.076	0.03	U.S.
27	Potatoes / Azoxystrobin	0.003	0.058	0.03	U.S.
28	Potatoes / Azoxystrobin	0.003	0.043	0.03	Canada
29	Potatoes / Captan (detected as THPI) 1	0.09	0.30	0.05	U.S.
30	Potatoes / Captan (detected as THPI) 1	0.09	0.30	0.05	U.S.
31	Potatoes / Captan (detected as THPI) 1	0.09	0.30	0.05	U.S.

	Limit of Detection,	Concentration Detected,	EPA Tolerance	
Commodity / Pesticide	ppm	ppm	Level, ppm	Country of Origin
32 Potatoes / Captan (detected as THPI) 1	0.09	0.30	0.05	U.S.
33 Spinach / Bifenthrin	0.038	0.37	0.2	U.S.
34 Spinach / Bifenthrin	0.038	0.30	0.2	U.S.
35 Spinach / Cyhalothrin, Lambda	0.006	0.088	0.01	U.S.
36 Spinach / Cyhalothrin, Lambda	0.006	0.057	0.01	U.S.
37 Spinach / Cyhalothrin, Lambda	0.006	0.025	0.01	U.S.
38 Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.05	0.40	0.01	U.S.
39 Strawberries / Acetamiprid	0.001	0.67	0.60	U.S.
40 Strawberries / Myclobutanil	0.001	0.66	0.50	Mexico
41 Strawberries / Pyrimethanil	0.003	5.7	3.0	U.S.
42 Strawberries / Pyrimethanil	0.003	3.7	3.0	U.S.
43 Sweet Potatoes / Bifenthrin	0.038	0.11	0.05	U.S.
44 Sweet Potatoes / Cypermethrin	0.03	0.22	0.1	U.S.
45 Sweet Potatoes / Methamidophos	0.01	0.038	0.02	U.S.
46 Sweet Potatoes / Captan (detected as THPI) 1	0.09	0.30	0.05	U.S.

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

Commodity / Dooticide	Number of	Samples	% of	Range of Values	Range of	Sample Origin U.S. Import Unk.		
Commodity / Pesticide	Samples	Reported	Samples	Detected, ppm	LODs, ppm	0.5.	πιροπ	UNK
1 Apples								
Chlorpropham	744	3	0.4	0.010 - 0.031	0.006 - 0.018	3	0	0
Diflubenzuron	744	25	3.4	0.011 - 0.087	0.007 - 0.012	23	2	0
Dimethoate <sup>3</sup>	744	2	0.3	0.012 - 0.049	0.001 - 0.002	2	0	0
Omethoate <sup>3</sup>	744	2	0.3	0.004 - 0.012	0.002 - 0.003	2	0	0
Propargite	744	4	0.5	0.005 - 0.044	0.003 - 0.088	4	0	0
2 Asparagus								
Carbofuran <sup>4</sup>	744	4	0.5	0.010 - 0.15	0.003 - 0.010	0	4	0
DCPA	210	1	0.5	0.010 ^	0.003 ^	1	0	0
3-Hydroxycarbofuran <sup>4</sup>	744	2	0.3	0.011 - 0.036	0.006 - 0.010	0	2	0
Imazalil	210	1	0.5	0.005 ^	0.003 ^	0	1	0
Imidacloprid	210	1	0.5	0.010 ^	0.006 ^	0	1	0
Thiabendazole	210	1	0.5	0.005 ^	0.003 ^	0	1	0
3 Beef Adipose (in parts per b	illion)			(ppb)	(ppb)			
Hexachlorobenzene (HCB)	292	5	1.7	1.1 - 1.8	1.0 ^	5	0	0
4 Cilantro								
Boscalid	184	9	4.9	0.010 ^	0.006 ^	9	0	0
Carbendazim (MBC)	184	4	2.2	0.011 - 0.31	0.001 ^	3	0	1
Carbofuran <sup>4</sup>	184	2	1.1	0.52 - 1.3	0.006 ^	1	1	0
Chlorantraniliprole	184	23	12.5	0.003 - 0.036	0.002 ^	22	1	0
Chlordane cis <sup>5</sup>	184	7	3.8	0.002 - 0.007	0.001 ^	7	0	0
Chlordane trans <sup>5</sup>	184	2	1.1	0.002 ^	0.001 ^	2	0	0
DDD o,p' <sup>6</sup>	184	2	1.1	0.002 ^	0.001 ^	2	0	0
DDD p,p' <sup>6</sup>	106	15	14.2	0.002 ^	0.001 ^	15	0	0
DDE p,p' <sup>6</sup>	184	36	19.6	0.007 - 0.032	0.006 ^	32	3	1
DDT o,p' <sup>6</sup>	184	47	25.5	0.002 - 0.006	0.001 ^	43	3	1
Diazinon <sup>7</sup>	184	24	13	0.003 - 1.0	0.002 ^	19	5	0
Diazinon oxygen analog <sup>7</sup>	184	1	0.5	0.005 ^	0.003 ^	1	0	0
Dicloran	180	10	5.6	0.003 - 0.037	0.002 - 0.013	8	2	0
Dieldrin	146	3	2.1	0.008 ^	0.005 ^	2	1	0
Diflubenzuron	184	1	0.5	0.011 ^	0.007 ^	1	0	0
Dimethenamid	138	1	0.7	0.002 ^	0.001 - 0.003	1	0	0
Dimethoate 3	184	2	1.1	0.83 ^	0.002 ^	0	2	0
Dimethomorph	184	5	2.7	0.002 - 0.009	0.001 ^	5	0	0
Dinotefuran	184	1	0.5	0.033 ^	0.020 ^	1	0	0
Fluazifop butyl	184	1	0.5	0.010 ^	0.001 - 0.003	1	0	0
Fluoxastrobin	184	1	0.5	0.002 ^	0.001 - 0.004	1	0	0
3-Hydroxycarbofuran <sup>4</sup>	184	2	1.1	0.088 - 0.16	0.002 - 0.005	1	1	0
Linuron	184	28	15.2	0.010 - 0.36	0.010 ^	24	4	0
Malathion	184	10	5.4	0.005 - 0.066	0.003 ^	10	0	0
Metalaxyl	184	4	2.2	0.010 - 0.12	0.006 ^	2	2	0
Metolachlor	184	2	1.1	0.002 ^	0.001 ^	1	1	0
Omethoate <sup>3</sup>	184	2	1.1	0.43 - 0.44	0.002 ^	0	2	0
Pendimethalin	184	12	6.5	0.004 - 0.062	0.002 ^	9	3	0

Commodity / Pesticio	de	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm		nple Or Import	-
4 Cilantro (con	tinued)								
Pentachloroan	iline (PCA) <sup>8</sup>	184	11	6	0.002 - 0.075	0.001 ^	6	5	0
Pentachlorobe	nzene (PCB) <sup>9</sup>	168	2	1.2	0.003 - 0.010	0.002 ^	0	2	0
Permethrin cis	2	184	6	3.3	0.010 - 0.73	^ 800.0	4	2	0
Permethrin tran	ns <sup>2</sup>	184	6	3.3	0.009 - 0.79	^ 800.0	4	2	0
Pronamide		184	1	0.5	0.024 ^	0.006 ^	1	0	0
Pyraclostrobin		184	7	3.8	0.002 - 0.091	0.001 - 0.004	7	0	0
Pyrimethanil		184	15	8.2	0.002 - 0.008	0.001 ^	14	1	0
Quintozene (Po	CNB)	184	4	2.2	0.005 - 0.30	0.003 ^	2	2	0
Tebuconazole		184	3	1.6	0.003 - 0.023	0.002 - 0.006	1	2	0
Tecnazene		184	2	1.1	0.008 ^	0.005 ^	0	2	0
Captan (detect	ed as THPI) 1	184	1	0.5	0.066 ^	0.020 ^	1	0	0
Thiamethoxam		184	2	1.1	^ 800.0	0.005 ^	2	0	0
5 Cucumbers		_		_					
Atrazine		534	1	0.2	0.003 ^	0.002 ^	1	0	0
Chlorpropham		744	5	0.7	0.010 - 0.030	0.006 - 0.018	3	2	0
Dimethoate <sup>3</sup>		744	11	1.5	0.002 - 0.20	0.001 - 0.002	1	10	0
Diphenylamine	-	744	1	0.1	0.005 ^	0.003 - 0.012	0	1	0
Fenamiphos su		744	1	0.1	0.006 ^	0.003 - 0.004	1	0	0
Fenamiphos su	ulfoxide	744	2	0.3	0.006 - 0.015	0.003 - 0.004	2	0	0
Imazalil		744	1	0.1	0.005 ^	0.003 - 0.010	1	0	0
Iprodione		744	1	0.1	0.17 ^	0.008 - 0.028	0	1	0
Metolachlor		744	14	1.9	0.002 ^	0.001 - 0.012	14	0	0
Omethoate 3		744	9	1.2	0.004 - 0.077	0.002 - 0.003	1	8	0
Pentachloroan	iline (PCA)	534	5	0.9	0.002 ^	0.001 - 0.005	5	0	0
Profenofos		534	2	0.4	0.003 - 0.008	0.002 ^	1	1	0
Pyrimethanil		744	25	3.4	0.002 - 0.066	0.001 - 0.003	9	16	0
Quinoxyfen		744	6	0.8	0.003 - 0.004	0.002 - 0.008	0	6	0
Tebufenozide		744	1	0.1	0.014 ^	0.003 - 0.010	0	1	0
Thiabendazole		744	9	1.2	0.002 - 0.004	0.001 - 0.003	2	7	0
Triadimefon		744	4	0.5	0.002 - 0.007	0.0009 - 0.027	1	3	0
6 Grapes Dimethoate 10		744	0	0.0	0.000 0.004	0.004 0.000	4	4	0
		744	2	0.3	0.003 - 0.004	0.001 - 0.002	1	1	0
Formetanate h Omethoate 10	yarocnioriae	744	1	0.1	0.003 ^	0.001 - 0.006	1	0	0
Omethoate		744	2	0.3	0.005 - 0.009	0.002 - 0.003	1	1	0
7 Green Onions Atrazine		558	3	0.5	0.003 - 0.007	0.002 ^	1	2	0
Dicofol p,p'		558	2	0.5	0.016 - 0.022	0.002	1	1	0
Endosulfan sul	fate	556	1	0.4	0.016 - 0.022	0.003 - 0.019	0	1	0
Imidacloprid	ialo	558	10	1.8	0.003 ^	0.020 ^	5	5	0
Linuron		558	2	0.4	0.002 - 0.003	0.001 ^	ე 1	5 1	0
Oxyfluorfen		558	1	0.4	0.005 ^	0.003 ^	1	0	0
Pentachloroan	iline (PCA)	558	1	0.2	0.002 ^	0.003 ^	0	1	0
Permethrin cis		558	6	1.1	0.002	0.001	2	4	0
Permethrin tran		542	3	0.6	0.009 - 0.053	0.008 - 0.016	1	2	0
. Jimodiiii dal		J .Z	•	0.0	0.000	3.333 3.010	•	-	~

Co	mmodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm		mple Ori Import	-
8	Lettuce, Organic								
	Phosmet oxygen analog	387	3	0.8	0.17 - 0.22	0.053 ^	3	0	0
9	Oranges								
	Dicloran	655	1	0.2	0.022 ^	0.006 - 0.025	1	0	0
10	Pears						_		_
	Iprodione	742	1	0.1	0.076 ^	0.046 ^	0	1	0
44	Diata Danas Canasi								
11	Pinto Beans, Canned	372	1	0.2	0.003 ^	0.001 - 0.003	1	0	0
	Thiabendazole	312	I	0.3	0.003 ^	0.001 - 0.003	I	U	0
12	Potatoes								
12	Buprofezin	744	1	0.1	0.004 ^	0.001 - 0.021	1	0	0
	Duprorozin	,	•	0.1	0.001	0.001 0.021	•	Ü	Ü
13	Rice								
.0	Allethrin	394	3	0.8	0.017 ^	0.010 ^	3	0	0
	Endosulfan II	433	1	0.2	0.005 ^	0.003 ^	0	1	0
	Endosulfan sulfate	374	1	0.3	0.002 ^	0.001 ^	0	1	0
	Permethrin Total	414	5	1.2	0.17 ^	0.10 ^	5	0	0
14	Spinach								
	Chlorothalonil	511	1	0.2	0.017 ^	0.003 - 0.038	1	0	0
	DCPA	722	6	0.8	0.005 - 0.009	0.003 - 0.008	6	0	0
	Dicloran	744	7	0.9	0.010 - 0.19	0.006 - 0.013	7	0	0
	Diflubenzuron	210	2	1	0.020 ^	0.012 ^	2	0	0
	Dimethoate <sup>3</sup>	744	7	0.9	0.002 - 2.6	0.001 - 0.010	7	0	0
	Dimethomorph	298	5	1.7	0.005 - 0.098	0.003 - 0.010	5	0	0
	Imiprothrin	210	1	0.5	0.034 ^	0.030 ^	1	0	0
	Linuron	210	7	3.3	0.010 - 0.047	0.006 ^	6	1	0
	Methoxychlor p,p'	210	1	0.5	0.81 ^	0.012 ^	1	0	0
	Omethoate <sup>3</sup>	744	24	3.2	0.005 - 0.76	0.003 - 0.010	24	0	0
	Oxydemeton methyl sulfone	726	1	0.1	0.032 ^	0.006 - 0.020	1	0	0
	Quintozene (PCNB)	656	1	0.2	0.014 ^	0.003 - 0.005	1	0	0
	Tetramethrin	744	1	0.1	0.017 ^	0.010 - 0.030	1	0	0
	Trifluralin	744	1	0.1	0.029 ^	0.015 - 0.018	1	0	0
	•								
15	Strawberries Dicloran	744	1	0.1	0.096 ^	0.006 - 0.026	0	1	0
	Dimethoate Ovamyl syims	744 744	1	0.1 0.1	0.004 ^	0.001 - 0.002	1	0	0
	Oxamyl oxime Tebuconazole	744 744	1 1	0.1	0.051 ^ 0.003 ^	0.012 - 0.035 0.003 - 0.042	1 1	0 0	0 0
	i GDUCCHAZCI <del>C</del>	1 <del>4 4</del>	ı	0.1	0.003 ^	0.003 - 0.042	ı	U	U
16	Sweet Potatoes								
10	Chlorpropham	739	2	0.3	0.020 ^	0.012 - 0.038	2	0	0
			_	0.0	5.525	3.3.2 3.000	-	J	v

#### **NOTES**

- <sup>1</sup> Captan's tetrahydrophthalimide (THPI) metabolite was detected and quantitated. The result for THPI was stoichiometrically converted and is expressed as the parent, captan.
- <sup>2</sup> Permethrin cis and trans isomers were detected within the same samples.
- <sup>3</sup> Omethoate metabolite was detected within the same samples as Dimethoate.
- $^{4}$  3-Hydroxycarbofuran metabolite was detected within the same samples as Carbofuran.
- <sup>5</sup> Chlordane cis and trans isomers were detected within the same samples.
- <sup>6</sup> DDT metabolites were detected within the same samples.
- <sup>7</sup> Diazinon oxygen analog metabolite was detected within the same sample as Diazinon.
- <sup>8</sup> Pentachloroaniline (PCA) metabolite was detected within the same three samples as Quintozene (PCNB).
- <sup>9</sup> Pentachlorobenzene (PCB) metabolite was detected within the same two samples as PCA metabolite and Quintozene (PCNB).
- <sup>10</sup> Omethoate metabolite was detected within one same sample as Dimethoate.

#### 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 2009**

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