**APPENDIX 1-6. Use Site Footprints for Imidacloprid**

1. **Agriculture Uses**

Use site footprint layers represent the application sites for agricultural and non-agricultural label uses. The best available data to spatially characterize specific agricultural crops in the continuous United States (ConUS) is the Cropland Data Layer (CDL), produced by the U.S. Department of Agriculture. Several methods have been employed to minimize data errors within the CDL. The CDL is a landcover dataset that has over 100 cultivated classes that were grouped into 13 general classes (see **APPENDIX 1-5**). Lumping classes reduces the likelihood of errors of omission and commission between similar crop categories. In selecting how to group crops from the CDL, EPA referred to the grouping used by the U.S. Geological Survey (Baker and Capel, 2011[[1]](#footnote-2)) and the Generic Endangered Species Task Force (Amos *et al*., 2010[[2]](#footnote-3)). This information considers environmental factors that influence the location of crops and the error matrices provided by USDA with the original CDL data. By considering these agronomic factors in addition to the error matrices it is possible to improve the accuracy and year-to-year matches for these UDLs while retaining agronomic similarities. This categorical aggregation into the UDL crop groups does not account for changes in agricultural practices but the temporal aggregation does. The UDLs used in this assessment include 5 years of the CDL, 2013-2017, aggregated to account for changes year to year such as crop rotations. Anywhere a class occurs within those 5 years would be represented in the footprint layer. These temporally aggregated and categorially grouped layers generated from the CDL are referred to as Use Data Layers or UDLs.

The agricultural classes were further refined by comparing county level National Agricultural Statistics Service (NASS) 2012 Census of Agriculture (CoA) acreage reports to county level UDL acreages (additional detail can be found in the tool documentation, “**Processing the Census of Agriculture Data”** section). The UDL acreages represent the temporally aggregated and categorically grouped processing steps previously described, summarized at the county level. If a county’s UDL acreage for a given class was lower than the NASS acreage, the UDL extent was expanded within cultivated areas until the UDL acreage matched or exceeded the NASS CoA. Using the temporally and categorially aggregated UDL as an input, a script was developed that compares each UDL in each county to the corresponding NASS CoA acreage report. If the UDL acreage was less than NASS, the raster was expanded in 1 pixel iterations until the NASS acreage value was reached, exceeded, or the area within the cultivated mask was built out. Region growing was restricted using the UDL Cultivated Layer from the last year of the CDL as a mask (2017). This avoids buffering into any non-agricultural landcover types. This method reduces uncertainty related to landcover mapping by ensure the acres mapped on the ground in the UDL corresponds to the reported acreage from the CoA in this case, 2012. This helps addresses the uncertainty in acreage estimates in the landcover data given the known downward area bias in area estimates related to remotely sensed data. Additional details and the python scripts for this process can be found in with the tool documentation, **Generating Use Data Layers**, “**CDL to UDL Processing and Action Area Python Scripts**” section.

Every assessment begins with cross-walking registered uses into a landcover category. Chemicals are often not represented by all 13 UDLs. Some chemicals specify geographic restrictions for a given use (*i.e*., application on wheat is limited to the state of Idaho). Geographic limitations for registered uses are imposed on the dataset downstream in the data processing workflow. The geographic restriction should be extracted from the use layer before it is aggregated with all other chemical uses to generate the action area for the imidacloprid’s agricultural uses are crosswalked to 8 of the UDLs classes, there are no geographic restrictions. A complete crosswalk for the imidacloprid agricultural uses is provided in **Table 1** generated from **Attachment 1-4.** This crosswalk includes the label use name, the name(s) from the Census of Agriculture, SUUM use site (**APPENDIX 1-4**), and the UDL.

In addition to the potential use site each UDL is buffered in all directions using the ESRI ArcGIS Euclidean distance tool. This buffered area represents the potential exposure area associated with drift.

The CDL is not available for areas outside of the contiguous United States (ConUS). The CoA is often unavailable outside of ConUS as well. The Agricultural UDL Data Sources section describes how agriculture was spatially modeled by regions outside of ConUS, referred to as the non-lower 48 (NL48).

1. **Non-Agricultural Uses**

Non-agricultural label uses include a wide range of landcover and land use categories. Each label use was carefully considered and cross-walked with the best available landcover data. Where available, the 2011 National Land Cover Dataset (NLCD) was used to represent many non-agricultural label uses. Where NLCD wasn’t available, the NOAA C-CAP dataset and corresponding landcover classes were used. Details on the data sources for each non-agricultural UDL are provided in the Non-Agricultural UDL Data Source section. A complete crosswalk for the imidacloprid non-agricultural uses is provided in **Table 2**. This crosswalk includes the label use name, SUUM use site (**APPENDIX 1-4**), and the UDL data sources used to generate each layer are provided in the UDL data source section.

1. **Action Area**

To create the action area for imidacloprid all pertinent agricultural and non-agricultural UDLs are combined. This is completed by placing the UDLs on top of each other and combining them into one footprint. The resulting layer includes all locations found in each of the UDLs and with the buffered areas (non-use site locations) represented as minimum distance to a potential use site across all UDLs. This sets the exposure area for imidacloprid related to drift. For additional detail on how the action area is generated see the tool documentation, “**CDL to UDL Processing and Action Area Python Scripts**” section.

1. **UDL Data Sources**
	1. Agricultural UDL Data Sources for the NL48
* **ConUS**

Citrus, Cotton, Grapes, Other Crops, Other Orchards, Other Row Crops, Soybeans, Vegetables and ground fruit UDLs generated from the Cropland Data Layer (CDL) 2013-2017. See **APPENDIX 1-5** for details on the specific crops found in each UDL. National UDLS were used.

* **Alaska (AK)**
	+ National Land Cover Dataset (NLCD 2016) Cultivated Class (82); inclusive of all agricultural crops
* **Hawaii (HI)**
	+ National Oceanic & Atmospheric Administration (NOAA) Coastal Change Analysis Program (CCAP 2011), Cultivated Class (6); inclusive of all agricultural crops
* **Puerto Rico (PR)**
	+ NLCD Cultivated Class (2001) (82); inclusive of all agricultural crops
* **Guam (GU)**
	+ CCAP 2011 Cultivated Class (6); inclusive of all agricultural crops
* **Marianas (CNMI)**
	+ CCAP 2004 Cultivated Class (6); inclusive of all agricultural crops
* **American Samoa (AS)**
	+ CCAP 2010 Cultivated Class (6) inclusive of all agricultural crops
* **Virgin Islands (VI)**
	+ CCAP 2012 Cultivated Class (6) inclusive of all agricultural crops
	+ Non-Agricultural UDL Data Sources ConUS and NL48 – National Landcover Dataset (NLCD)

Non-agricultural label uses include a wide range of landcover and land use categories. Each label use was carefully considered and cross-walked with the best available UDL. It is possible for a label use to crosswalked to multiple UDLs, this is discussed in more detail in the individual UDL sections below. Where available, the 2016 National Land Cover Dataset (NLCD) for ConUs and AK and 2001 NLCD in PR was used to represent many non-agricultural label uses (see below). Where NLCD wasn’t available, the NOAA C-CAP and other dataset outlined below were used. Below is a sample of label classes that were represented using NLCD Developed or Open Space Developed land use categories. These different Developed classes are discussed in more detail below. Forest landcover categories from the NLCD or CCAP for forest label uses.

* Grain/cereal/flour bins
* Grain/cereal/flour elevators
* Household/domestic dwellings (perimeter outdoor only)
* Non-agricultural outdoor building structures
* Ornamental and/or shade trees
* Ornamental herbaceous plants
* Ornamental non-flowering plants
* Ornamental woody shrubs and vines
* Refuse/solid waste containers (outdoors)
* Refuse/solid waste sites (outdoors)
* Commercial/Institution-Al/ Industrial Premises/ Equip. (Indoor and Outdoor) – Broadcast, Crack and Crevice/Void
* Domestic Dwellings Outdoor Premises;
* Food Processing Plant Premises (Nonfood Contact) – Crack and Crevice
* Nonagricultural Outdoor Buildings/Structures
* Poultry Litter (Poultry houses)
* Recreational Areas
* Sewer Manhole Covers and Walls
* Utilities – Broadcast
* Wood Protection Treatment to Buildings/Products Outdoor

### ****Developed****

Developed land cover is used to spatially represent certain non-agricultural label uses and includes areas with a mixture of constructed materials and vegetation, where impervious surfaces account for 20% to 100 % percent of total cover. These areas most commonly include single-family housing units, apartment complexes, row houses and commercial/industrial.

* + **ConUS**
		- NLCD 2016 class 22-24
	+ **Alaska**
		- NLCD 2016 class 22-24
	+ **Hawaii**
		- CCAP 2011 class 2-4
	+ **Puerto Rico**
		- NLCD 2001 class 22-24
	+ **Guam**
		- CCAP 2011 class 2
	+ **Marianas**
		- CCAP 2004 class 2
	+ **American Samoa**
		- CCAP 2010 class 2
	+ **Virgin Islands**
		- CCAP 2012 class 2

### Open Space Developed

Open Space Developed (OSD) is used to spatially represent certain non-agricultural label uses and includes areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.

* + **ConUS**
		- NLCD 2016 class 21
	+ **Alaska**
		- NLCD 2016 class 21
	+ **Hawaii**
		- CCAP 2011 class 5
	+ **Puerto Rico**
		- NLCD 2016 class 21
	+ **Guam**
		- CCAP 2011 class 5
	+ **Marianas**
		- CCAP 2004 class 5
	+ **American Samoa**
		- CCAP 2010 class 5
	+ **Virgin Islands**
		- CCAP 2012 class 5
	1. Non-Agricultural UDL Data Sources ConUS and NL48 – Other Datasets

When the NLCD was inadequate to represent a label use, other data sources were used in modeling as appropriate. The following list describes each label use and how it was spatially modeled by region.

### Christmas Trees

* Cropland Data Layer (CDL) class 70, Christmas Trees, are used for ConUS. These are not characterized anywhere else.
	+ **ConUS**
		- Cropland Data Layer (CDL) class 70, Christmas Trees
	+ **Alaska**
		- Include either of the following USGS GAP Protected Areas Database classes where NLCD indicates "Forest" (41-43); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
	+ **Hawaii**
		- No Christmas Tree land cover data is available
	+ **Puerto Rico**
		- No Christmas Tree land cover data is available
	+ **Guam**
		- No Christmas Tree land cover data is available
	+ **Marianas**
		- No Christmas Tree land cover data is available
	+ **American Samoa**
		- No Christmas Tree land cover data is available
	+ **Virgin Islands**
		- No Christmas Tree land cover data is available

### Field Nurseries

* Non-agricultural Nurseries represent a land use that is not exclusive to any nationwide land cover class. Nurseries are mapped by using geocoded Dun and Bradstreet (D&B) business database addresses. Label uses that are covered by this UDL found on ornamentals, shrubs/vines, and non-food trees, grown in a non-agricultural setting (*e.g.* Retail Nurseries, Garden supply stores, retail greenhouse, retail shade house or retail horticultural location. This information is combined with the UDLs for Other Orchard and Citrus in ConUS to represented by agricultural nursery uses such as trees grown for food, tree plantations or transplanted trees, shrubs, and ornamentals.
	+ **ConUS**
		- Using the Dun and Bradstreet business database, select all records with any SIC Codes starting with “018” (Horticultural Specialties) or “526” (Retail Nurseries, Lawn And Garden Supply Stores)
		- Selected points are then buffered by their facility size attribute. Where facility size is absent, substitute the Census of Agriculture’s average acreage by county, calculated using Nursery Totals. If a county’s nursery acreages are undisclosed, then an average of all county averages is used. A circular buffer is applied, where radius is solved for using the areas previously described. In an effort to map production facilities only and not business offices, use the ‘Location Type’ attribute to categorize locations.
		- Use Data Layer for Other Orchard and Citrus (CDL 2013-2017)
	+ **Alaska**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Hawaii**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Puerto Rico**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Guam**
		- No Dun and Bradstreet business data were available for Guam.
	+ **Marianas**
		- No Dun and Bradstreet business data were available for Marianas.
	+ **American Samoa**
		- No Dun and Bradstreet business data were available for American Samoa.
	+ **Virgin Islands**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.

### Managed Forests

* Forested areas managed for timber extraction, forest tree plantations (excluding Christmas Trees). There is also a stand-alone Christmas Tree UDL, and a combined Forestry UDL which includes Managed Forest and Christmas Trees see above.
	+ **ConUS**
		- Include all the following LandFire Existing Vegetation Type (EVT) classes; "Recently Logged-Herb and Grass Cover", "Recently Logged-Shrub Cover", "Recently Logged-Tree Cover", "Managed Tree Plantation-Northern and Central Hardwood and Conifer Plantation Group", or "Managed Tree Plantation-Southeast Conifer and Hardwood Plantation Group"
		- Include any of the following United States Geologic Survey (USGS) National Gap Analysis Program (GAP) Public Model Ready Events; "Thinning", "Other Mechanical", "Clearcut", "Harvest", or "Reforestation"
		- Include any of the following USGS GAP Land Cover classes; "Recently Logged Areas", "Harvested Forest - Grass/Forb Regeneration", "Harvested Forest-Shrub Regeneration", "Harvested Forest - Northwestern Conifer Regeneration", "Managed Tree Plantation", "Evergreen Plantation or Managed Pine", "Deciduous Plantations"
		- Include either of the following USGS GAP Protected Areas Database classes where NLCD indicates "Forest" (41-43); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or Off Highway Vehicles (OHV) use" and "4 - no known mandate for protection"
	+ **Alaska**
		- Include either of the following USGS GAP Protected Areas Database classes where NLCD indicates "Forest" (41-43); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
		- Include any of the following USGS GAP Public Model Ready Events; "Thinning", "Other Mechanical", "Clearcut", "Harvest", or "Reforestation"
		- AK LandFire EVT and GAP land cover do not have classes indicative of forest management
	+ **Hawaii**
		- Include the following LandFire EVT class; “Hawai'i Managed Tree Plantation”
		- Include either of the following USGS GAP Protected Areas Database classes where CCAP indicates "Forest" (9-11); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
		- HI GAP land cover and USGS GAP Public Model Ready Events for HI do not have classes indicative of forest management
	+ **Puerto Rico**
		- Include the following GAP land cover classes; “Abandoned dry forest plantation”, “Woody agriculture and plantations: Palm plantations”
		- Include either of the following USGS GAP Protected Areas Database classes where CCAP indicates "Forest" (9-11); "3 - managed for multiple uses - subject to extractive (*e.g.*, mining or logging) or OHV use" and "4 - no known mandate for protection"
		- PR LandFire EVT is not available
	+ **Guam**
		- Include either of the following USGS GAP Protected Areas Database classes where CCAP indicates "Forest" (9-11); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
		- LandFire EVT, GAP land cover, and USGS GAP Public Model Ready Events are not available for Guam
	+ **Marianas**
		- Include either of the following USGS GAP Protected Areas Database classes where CCAP indicates "Forest" (9-11); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
		- LandFire EVT, GAP land cover, and USGS GAP Public Model Ready Events are not available for the Marianas
	+ **American Samoa**
		- LandFire EVT, GAP land cover, and USGS GAP Public Model Ready Events are not available for the Marianas
		- USGS GAP Protected Areas Database does not indicate areas indicative of forest management
	+ **Virgin Islands**
		- Include either of the following USGS GAP Protected Areas Database classes where CCAP indicates "Forest" (9-11); "3 - managed for multiple uses - subject to extractive (*e.g*., mining or logging) or OHV use" and "4 - no known mandate for protection"
		- LandFire EVT, GAP land cover, and USGS GAP Public Model Ready Events are not available for the Marianas

### Field Nurseries

* Non-agricultural Nurseries represent a land use that is not exclusive to any nationwide land cover class. Nurseries are mapped by using geocoded Dun and Bradstreet (D&B) business database addresses. Label uses that are covered by this UDL found on ornamentals, shrubs/vines, and non-food trees, grown in a non-agricultural setting (*e.g.* Retail Nurseries, Garden supply stores or retail horticultural location. This UDLs does not include label represented by agricultural nursery uses such as trees grown for food, tree plantations or transplanted trees, shrubs, and ornamentals. These agricultural nurseries are captured in the agricultural UDLs described above.
	+ **Alaska**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Hawaii**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Puerto Rico**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.
	+ **Guam**
		- No Dun and Bradstreet business data were available for Guam.
	+ **Marianas**
		- No Dun and Bradstreet business data were available for Marianas.
	+ **American Samoa**
		- No Dun and Bradstreet business data were available for American Samoa.
	+ **Virgin Islands**
		- Dun and Bradstreet business database was used in the same method as applied to ConUS.

### Poultry litter

* Poultry litter assumed to be applied to the corn, soybeans, other grains, cotton, wheat, rice, other row crops, vegetables and ground fruit and alfalfa use data layers (UDLs). These UDLs were identified based on the 24 crops reported in Kellog et al. (2000) for manure/litter application. Kellog et al. (2000) identified these sites for manure/litter applications based on the assimilative capacity (or land application capacity).
* The spatial footprint was then made limited to the counties identified with potential poultry operations using the USDA National Agricultural Statistics Service (USDA-NASS). The USDA-NASS collects data on livestock and poultry production in the United States through its ongoing survey programs as well as through the Census of Agriculture conducted every five years. Both survey and census data can be accessed through the Quick Stats Database Tool (<https://quickstats.nass.usda.gov/>), this effort used the census data. This tool allows users to specify the geographic unit of extraction and table desired. Both operations with inventory (i.e. number of operations) and inventory (i.e. number of animals) were used to identify poultry operation. The poultry inventory data only includes turkey, rooster, broiler and layer inventories. Whereas, poultry operations with inventory data includes total poultry operations. Therefore, while downloading data different filtering options were used in both conditions. The data with “withheld to avoid disclosing data for individual operations (data with D abbreviations )” was crosschecked with the “Operations with inventory” (# of operations) county data, and if the specific county has data, was “withheld to avoid disclosing data for individual operations (data with D abbreviations )” included to determine spatial footprint. Counties with no data probably contain developed area and have lesser chance to have poultry operations. But to be conservative and consistent with other agricultural use processing, these no data counties were also included to determine spatial footprint. These yield an entire national level poultry spatial footprint. Drift is not included with this UDL.
* **ConUS**
	+ The 8 UDLs that encompass 24 crops references Kellog (2000) were combined into one layer to identify the spatial footprint for litter application.
* **Alaska (AK)**
	+ NLCD 2016 Cultivated Class (82); inclusive of all agricultural crops.
* **Hawaii (HI)**
	+ CCAP 2011 Cultivated Class (6); inclusive of all agricultural crops.
* **Puerto Rico (PR)**
	+ NLCD 2001 Cultivated Class (82); inclusive of all agricultural crops.
* **Guam (GU)**
	+ CCAP 2011 Cultivated Class (6); inclusive of all agricultural crops.
* **Marianas (CNMI)**
	+ CCAP 2004 Cultivated Class (6); inclusive of all agricultural crops.
* **American Samoa (AS)**
	+ CCAP Cultivated Class (6) inclusive of all agricultural crops.
* **Virgin Islands (VI)**
	+ CCAP Cultivated Class (6) inclusive of all agricultural crops.

Table 1. Crosswalk of imidacloprid agricultural uses across crop sources

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Label Use from Master Label (source -DRA) | Label Use (Source: label, DRA report and IR-4 Crop Group) | Crop Reported in SUUM (source - SUUM Table 2) | Census of Agriculture | ConUS UDL | NL48 UDL | Notes  |
| Almonds | Almonds | Almond | ALMONDS | CONUS\_Other orchards | NL48\_Ag |   |
| Amaranth, edible (chinese spinach) | Amaranth, edible (chinese spinach) | Amaranth, edible (chinese spinach) | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Apple | Apple | Apple | APPLES | CONUS\_Other orchards | NL48\_Ag |   |
| Apricot | Apricot | Apricot | APRICOTS | CONUS\_Other orchards | NL48\_Ag |   |
| Artichoke | Artichoke | Artichoke | ARTICHOKES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Arugula | Arugula | Arugula | ROQUETTE (ARRUGULA) | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Avocado | Avocado | Avocado | AVOCADO | CONUS\_Other orchards | NL48\_Ag |   |
| Banana and Plantain | Banana and Plantain |  | BANANAS | CONUS\_Other orchards | NL48\_Ag |   |
| Basil, Sweet | Basil, Sweet | Basil, Sweet | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Beans (Snap, Bush, Pole, String) | Beans (Snap, Bush, Pole, String) | Beans (Snap, Bush, Pole, String) | BEANS, SNAP | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Beet, garden | Beet, garden | Beet, garden | BEETS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Bitter Melon | Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) | Bitter Melon | BITTERMELON | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Blackberries | Blackberries | Blackberries | BLACKBERRIES, INCL DEWBERRIES & MARIONBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Blueberries | Blueberries | Blueberries | BLUEBERRIES, TAME; BLUEBERRIES, WILD  | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Bok choy | Bok choy | Bok choy | CABBAGE, CHINESE | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Broccoli | Broccoli | Broccoli | BROCCOLI | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Broccoli, Chinese (Gai lon) | Broccoli, Chinese (Gai lon) | Broccoli, Chinese (Gai lon) | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Brussel sprouts | Brussel sprouts | Brussel Sprouts | BRUSSELS SPROUTS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cabbage | Cabbage | Cabbage | CABBAGE, HEAD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cabbage, chinese (napa) | Cabbage, chinese (napa) | Cabbage, chinese (napa) | CABBAGE, HEAD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cantaloupe | Muskmelon (hybrids and/or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon and Winter melon) | Cantaloupe | MELONS, CANTALOUP | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cardoon | Cardoon | Cardoon | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Carrots | Carrots | Carrots | CARROTS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cauliflower | Cauliflower | Cauliflower | CAULIFLOWER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Celeriac | Celeriac | Celeriac | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Celery | Celery | Celery | CELERY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cherry | Cherry | Cherry | CHERRIES, SWEET; CHERRIES, TART | CONUS\_Other orchards | NL48\_Ag |   |
| Chervil | Chervil | Chervil | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Chicory | Chicory | Chicory | CHICORY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Chives | Chives | Chives | ONIONS, GREEN | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Chives, Chinese | Chives, Chinese | Chives, Chinese | ONIONS, GREEN | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Chrysanthemum garland | Chrysanthemum (edible leaved and garland) | Chrysanthemum garland | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cilantro | Cilantro | Cilantro | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Coffee | Coffee | Coffee | COFFEE | CONUS\_Other orchards | NL48\_Ag |   |
| Collards | Collards | Collards | GREENS, COLLARD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Corn grown for seed (HI and PR only) | Corn grown for seed (HI and PR only) | Corn grown for seed (HI and PR only) | OTHER CROPS | N/A | NL48\_Ag (HI and PR only) |   |
| Corn salad | Corn salad | Corn salad | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cotton | Cotton | Cotton | COTTON | CONUS\_Cotton | NL48\_Ag |   |
| Cranberry | Cranberry |  | CRANBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cress, Garden | Cress, Garden | Cress, Garden | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Cucumber | Cucumber | Cucumber | CUCUMBERS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Daikon | Daikon | Daikon | DAIKON | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Dandelion greens | Dandelion greens | Dandelion greens | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Dill | Dill | Dill | DILL, OIL | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Dry Beans/Peas | Dry Beans/Peas | Dry Beans/Peas | BEANS, DRY EDIBLE, (EXCL LIMA) | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Eggplant | Eggplant | Eggplant | EGGPLANT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Endive (escarole) | Endive (escarole) | Endive (escarole) | ESCAROLE & ENDIVE | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Fennel | Fennel | Fennel | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Field corn grown for seed *(production, research, and breeding purposes)* (HI only) | Field corn grown for seed (production, research, and breeding purposes) (HI only) | Field corn grown for seed (production, research, and breeding purposes) (HI only) | CORN | N/A | NL48\_Ag (HI only) |   |
| Garlic | Garlic | Garlic | GARLIC | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Ginger | Ginger | Ginger | GINGER ROOT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Grape, Raisin | Grape, Raisin | Grapes, Raisin | GRAPES | CONUS\_Grapes | NL48\_Ag |   |
| Grape, Table | Grape, Table | Grapes, Table | GRAPES | CONUS\_Grapes | NL48\_Ag |   |
| Grape, Wine | Grape, Wine | Grapes, Wine | GRAPES | CONUS\_Grapes | NL48\_Ag |   |
| Grapefruit | Grapefruit | Grapefruit | GRAPEFRUIT | CONUS\_Citrus | NL48\_Ag |   |
| Guava | Guava | Guava | GUAVAS | CONUS\_Other orchards | NL48\_Ag |   |
| Hazelnut | Hazelnut | Hazelnut | HAZELNUTS | CONUS\_Other orchards | NL48\_Ag |   |
| Hops | Hops | Hops | HOPS | CONUS\_Other row crops | NL48\_Ag |   |
| Kale | Kale | Kale | GREENS, KALE | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Kohlrabi | Kohlrabi | Kohlrabi | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Kumquat | Kumquat | Kumquat | KUMQUATS | CONUS\_Citrus | NL48\_Ag |   |
| Kurrat | Kurrat | Kurrat | ONIONS, GREEN | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Leek | Leek | Leek | ONIONS, GREEN | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Lemon | Lemon | Lemon | LEMONS | CONUS\_Citrus | NL48\_Ag |   |
| Lettuce | Lettuce | Lettuce | LETTUCE | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Lima Beans | Lima Beans | Lima beans | BEANS, GREEN, LIMA; BEANS, DRY EDIBLE, LIMA | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Lime | Lime | Lime | LIME | CONUS\_Citrus | NL48\_Ag |   |
| Mango | Mango | Mango | MANGOES | CONUS\_Other orchards | NL48\_Ag |   |
| Mint | Mint | Mint | MINT, OIL; MINT, TEA LEAVES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Mizuna | Mizuna | Mizuna | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Mustard greens | Mustard greens | Mustard greens | GREENS, MUSTARD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Mustard, Chinese (Gai choy) | Mustard, Chinese (Gai choy) | Mustard, Chinese (Gai choy) | GREENS, MUSTARD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Nectarine | Nectarine | Nectarine | NECTARINES | CONUS\_Other orchards | NL48\_Ag |   |
| Okra | Okra | Okra | OKRA | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Olive | Olive | Olive | OLIVES | CONUS\_Other orchards | NL48\_Ag |   |
| Onions | Onions | Onions | ONIONS, GREEN; ONIONS, DRY  | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Oranges | Oranges | Oranges | ORANGES | CONUS\_Citrus | NL48\_Ag |   |
| Oregano | Oregano | Oregano | OREGANO | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Angelica, Balm (lemon balm) | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Peach | Peach | Peach | PEACHES | CONUS\_Other orchards | NL48\_Ag |   |
| Peanuts | Peanuts | Peanuts | PEANUTS | CONUS\_Other row crops | NL48\_Ag |   |
| Pear | Pear | Pear | PEARS | CONUS\_Other orchards | NL48\_Ag |   |
| Pear, Asian | Pear, Asian | Pear, Asian | PEARS | CONUS\_Other orchards | NL48\_Ag |   |
| Other 19A Herbs | Borage | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Bumet | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Pecans | Pecans | Pecan | PECANS | CONUS\_Other orchards | NL48\_Ag |   |
| Pepper, Spice | Pepper, Spice | Pepper, Spice | #N/A | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Camomile | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Persimmon | Persimmon | Persimmon | PERSIMMONS | CONUS\_Other orchards | NL48\_Ag |   |
| Pistachio | Pistachio | Pistachio | PISTACHIOS | CONUS\_Other orchards | NL48\_Ag |   |
| Plums/Prunes | Plums/Prunes | Plums/Prunes | PLUMS & PRUNES | CONUS\_Other orchards | NL48\_Ag |   |
| Pomegranate | Pomegranate | Pomegranate | POMEGRANATES | CONUS\_Other orchards | NL48\_Ag |   |
| Pomelo | Pummelo | Pomelo | CITRUS, OTHER | CONUS\_Citrus | NL48\_Ag |   |
| Other 19A Herbs | Catnip | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Costmary | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Curry (leaf) | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Quince | Quince | Quince | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other 19A Herbs | Horehound | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Hyssop | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Lavender | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Lemongrass | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Lovage (leaf) | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Marigold | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Majoram | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Soybean | Soybean | Soybean | SOYBEANS | CONUS\_Soybeans | NL48\_Ag |   |
| Soybean grown for seed (HI only) | Soybean grown for seed (HI only) | Soybean grown for seed (HI only) | OTHER CROPS | N/A | NL48\_Ag (HI only) |   |
| Other 19A Herbs | Pennyroyal | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Rue | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Savory | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Sugar beets | Sugar beets | Sugar beets | SUGARBEETS | CONUS\_Other row crops | NL48\_Ag |   |
| Sunflower grown for seed (HI only) | Sunflower grown for seed (HI only) | Sunflower grown for seed (HI only) | SUNFLOWER | CONUS\_Other row crops | NL48\_Ag (HI only) |   |
| Other 19A Herbs | Sweet Bay (bay leaf) | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Tansy | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Tangelos | Tangelos | Tangelo | TANGELOS | CONUS\_Citrus | NL48\_Ag |   |
| Tangerines | Mandarin | Tangerines | TANGERINES | CONUS\_Citrus | NL48\_Ag |   |
| Other 19A Herbs | Wintergreen | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other 19A Herbs | Woodruff | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Tobacco | Tobacco | Tobacco | TOBACCO | CONUS\_Other row crops | NL48\_Ag |   |
| Other 19A Herbs | Wormwood | Other 19A Herbs | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Brassica Leafy (Cole) Vegetables | Cavalo Broccoli | Other Brassica Leafy (Cole) Vegetables | BROCCOLI | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Brassica Leafy (Cole) Vegetables | Rape Greens | Other Brassica Leafy (Cole) Vegetables | GREENS, MUSTARD | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Bulb Vegetables | Shallot | Other Bulb Vegetables | ONIONS, DRY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Bulb Vegetables | Daylily | Other Bulb Vegetables | ONIONS, DRY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Walnut | Walnut | Walnut | WALNUTS, ENGLISH | CONUS\_Other orchards | NL48\_Ag |   |
| Other Bulb Vegetables | Fritillaria | Other Bulb Vegetables | ONIONS, DRY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Bulb Vegetables | Kurrat | Other Bulb Vegetables | ONIONS, DRY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Bulb Vegetables | Lily | Other Bulb Vegetables | ONIONS, DRY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Currant | Other bushberries | CURRANTS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Elderberry | Other bushberries | ELDERBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Gooseberry | Other bushberries | BERRIES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Huckleberry | Other bushberries | BERRIES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Juneberry | Other bushberries | BERRIES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Ligonberry | Other bushberries | BERRIES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other bushberries | Salal | Other bushberries | BERRIES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other caneberries | Loganberry | Other caneberries | LOGANBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other caneberries | Boysenberry | Other caneberries | BOYSENBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other caneberries | Marionberry | Other caneberries | BLACKBERRIES, INCL DEWBERRIES & MARIONBERRIES; BOYSENBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other caneberries | Dewberry | Other caneberries | BLACKBERRIES, INCL DEWBERRIES & MARIONBERRIES; BOYSENBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other cucurbit vegetables | Chinse waxgourd | Other cucurbit vegetables | CUCUMBERS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other cucurbit vegetables | Citron Melon | Other cucurbit vegetables | CITRONS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other cucurbit vegetables | Gherkin | Other cucurbit vegetables | CUCUMBERS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other cucurbit vegetables | Gourd | Other cucurbit vegetables | PUMPKINS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other cucurbit vegetables | Cuban pumpkin | Other cucurbit vegetables | PUMPKINS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Fruiting Vegetables | Ground Cherry | Other Fruiting Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Fruiting Vegetables | Pepinos | Other Fruiting Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other citrus | Calamondin | Other citrus | CITRUS, OTHER | CONUS\_Citrus | NL48\_Ag |   |
| Other citrus | Citrus citron | Other citrus | CITRUS, OTHER | CONUS\_Citrus | NL48\_Ag |   |
| Other citrus | Satsuma Mandarin | Other citrus | CITRUS, OTHER | CONUS\_Citrus | NL48\_Ag |   |
| Other Leafy Green Vegetables, including waterss | Dock (sorrel) | Other Leafy Green Vegetables, including waterss | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Leafy Green Vegetables, including waterss | Orach | Other Leafy Green Vegetables, including waterss | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Leafy Green Vegetables, including waterss | Purslane | Other Leafy Green Vegetables, including waterss | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Leafy Petiole vegetables | Celtuce | Other Leafy Petiole vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Leafy Petiole vegetables | Chinese celery (Fresh leaves and stalk only) | Other Leafy Petiole vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Leafy Petiole vegetables | Rhubarb | Other Leafy Petiole vegetables | RHUBARB | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Legume Vegetables, Except Dry soybeans | Lentil | Other Legume Vegetables, Except Dry soybeans | LENTILS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Legume Vegetables, Except Dry soybeans | Chickpea (garbanzo bean) | Other Legume Vegetables, Except Dry soybeans | CHICKPEAS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Burdock (edible) | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Ginseng | Other root vegetables | GINSENG | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Horseradish | Other root vegetables | HORSERADISH | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Kava | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Parsnip | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Rutabaga | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Salsify | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other root vegetables | Skirret | Other root vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tropical Fruits | Passionfruit | Other Tropical Fruits | PASSION FRUIT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Chayote | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Arracacha | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Arrowroot | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Canna | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Cassava | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Chufa | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Dasheen (taro) | Other Tuberous and Corm Vegetables | TARO | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tuberous and Corm Vegetables | Leren | Other Tuberous and Corm Vegetables | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Parsley | Parsley | Parsley | PARSLEY | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Peas (Fresh/Green/Sweet) | Peas (Fresh/Green/Sweet) | Peas (Fresh/Green/Sweet) | PEAS, DRY EDIBLE; PEAS, DRY, SOUTHERN (COWPEAS); PEAS, AUSTRIAN WINTER; PEAS, CHINESE (SUGAR & SNOW); PEAS, GREEN, (EXCL SOUTHERN) | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Peppers | Peppers | Peppers | PEPPERS, BELL; PEPPERS, CHILE | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Potato | Potato | Potato | POTATOES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Pumpkin | Pumpkin | Pumpkin | PUMPKINS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Radicchio | Radicchio | Radicchio | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Radish | Radish | Radish | RADISHES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Rapini | Rapini | Rapini | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Raspberries | Raspberries | Raspberries | RASPBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Rosemary | Rosemary | Rosemary | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Sage | Sage | Sage | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| other pome fruits | loquat | other pome fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| other pome fruits | Crabapple | other pome fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| other pome fruits | Mayhaw | other pome fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Spinach | Spinach | Spinach | SPINACH | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Squash | Squash (includes summer squash types such as: butternut squash, calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash) | Squash | SQUASH | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Strawberry | Strawberry | Strawberry | STRAWBERRIES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Sweet potato | Sweet potato | Sweet potato | SWEET POTATOES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Swiss chard | Swiss chard | Swiss chard | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Tarragon | Tarragon | Tarragon | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Thyme | Thyme | Thyme | HERBS, DRY; HERBS, FRESH CUT | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tree nuts | Beechnut | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Brazil Nut | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Butter nut | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Cashew | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Chestnut | Other Tree nuts | CHESTNUTS | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Chinquapin | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Hickory Nut | Other Tree nuts | TREE NUTS, OTHER | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tree nuts | Macadmia Nut | Other Tree nuts | MACADAMIAS | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Acerola | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Atemoya | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Biridia | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Black Sapote | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Canistel | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Cherimoya | Other Tropical Fruits | CHERIMOYAS | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Custard Apple | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Feijoa | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Jaboticaba | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Llama | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Longan | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Lychee | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Mamey Sapote | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Papaya | Other Tropical Fruits | PAPAYAS | CONUS\_Other orchards | NL48\_Ag |   |
| Tomatillo | Tomatillo | Tomatillo | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Other Tropical Fruits | Pulassan | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Rambutan | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Sapodilla | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Spanish Lime | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Star Apple | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Strafruit | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Sugar Apple | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Other Tropical Fruits | Wax jambu | Other Tropical Fruits | NON-CITRUS, OTHER, (EXCL BERRIES) | CONUS\_Other orchards | NL48\_Ag |   |
| Tomato | Tomato | Tomato | TOMATOES | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Turnip | Turnip | Turnip | TURNIP | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Turnip greens | Turnip greens | Turnip greens | TURNIP (GREENS) | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Upland Cress | Upland Cress | Upland Cress | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Watercress | Watercress | Watercress | WATERCRESS | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Watermelon | Watermelon (includes hybrids and/or varieties of Citrullus lanatus) | Watermelon | MELONS, WATERMELON | CONUS\_Vegetables and ground fruit | NL48\_Ag |   |
| Yam | Yam | Yam | VEGETABLES, OTHER | CONUS\_Vegetables and ground fruit | NL48\_Ag |  |

**Table 2. Crosswalk of Imidacloprid** **non-agricultural uses.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Label Use** | **Reported in SUUM** | **ConUS UDL** | **NL48 UDL** | **Notes UDL** |
| **Ornamentals grown in nurseries and greenhouses and surrounding areas (including nonbearing fruit and nut trees)** | **Ornamentals** | **CONUS\_Nurseries; Indoor** | **NL48\_Nurseries** |  |
| **Potted vegetable plants intended for resale**  | **Ornamentals** | **CONUS\_Nurseries; Indoor** | **NL48\_Nurseries** |  |
| **Ornamentals (including nonbearing fruit and nut trees)** | **Ornamentals** | **CONUS\_Other orchards; Indoor** | **NL48\_Ag** |  |
| **Lawns and turf** | **Turf** | **CONUS\_Developed** | **NL48\_Developed** |  |
| **Golf course turfgrass** | **Turf** | **CONUS\_Open Space Developed** | **NL48\_Open Space Developed** |  |
| **Sod farm (turf)** | **Turf** | **CONUS\_Other crops** | **NL48\_Ag** |  |
| **Christmas tree plantations** | **Tree Use** | **CONUS\_Xmas Trees** | **NL48\_Xmas Trees** |  |
| **Cottonwood (for pulp/timber)** | **Tree Use** | **CONUS\_Managed Forest** | **NL48\_Forestry** |  |
| **Poplar (for pulp/timber)** | **Tree Use** | **CONUS\_Managed Forest** | **NL48\_Forestry** |  |
| **Impervious paved areas** | **Premises/Areas** | **CONUS\_Developed** | **NL48\_Developed** |  |
| **liquid spray to poultry litter** | **Animal Areas**  | **CONUS\_Poultry Litter** | **NL48\_PoultryLitter** |  |
| **control of burrowing shrimp on commercial oyster beds** | **Animal Areas**  | **CONUS\_ShrimpUse** | **N/A** |  |

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