

## Environmental Protection Agency

## § 180.41

be applied to certain other related and similar commodities.

(c) When there is an established or proposed tolerance for all of the representative commodities for a specific group or subgroup of related commodities, a tolerance may be established for all commodities in the associated group or subgroup. Tolerances may be established for a crop group or, alternatively, tolerances may be established for one or more of the subgroups of a crop group.

(d) The representative crops are given as an indication of the minimum residue chemistry data base acceptable to the Agency for the purposes of establishing a group tolerance. The Agency may, at its discretion, allow group tolerances when data on suitable substitutes for the representative crops are available (e.g., limes instead of lemons).

(e) Since a group tolerance reflects maximum residues likely to occur on all individual crops within a group, the proposed or registered patterns of use for all crops in the group or subgroup must be similar before a group tolerance is established. The pattern of use consists of the amount of pesticide applied, the number of times applied, the timing of the first application, the interval between applications, and the interval between the last application and harvest. The pattern of use will also include the type of application; for example, soil or foliar application, or application by ground or aerial equipment.

(f) When the crop grouping contains commodities or byproducts that are utilized for animal feed, any needed tolerance or exemption from a tolerance for the pesticide in meat, milk, poultry and/or eggs must be established before a tolerance will be granted for the group as a whole. The representative crops include all crops in the group that could be processed such that residues may concentrate in processed food and/or feed. Processing data will be required prior to establishment of a group tolerance, and food additive tolerances will not be granted on a group basis.

(g) If maximum residues (tolerances) for the representative crops vary by more than a factor of 5 from the maximum

value observed for any crop in the group, a group or subgroup tolerance will ordinarily not be established. In this case individual crop tolerances, rather than group tolerances, will normally be established.

(h) Alternatively, a commodity with a residue level significantly higher or lower than the other commodities in a group may be excluded from the group tolerance (e.g., cereal grains, except corn). In this case an individual tolerance at the appropriate level for the unique commodity would be established, if necessary. The alternative approach of excluding a commodity with a significantly higher or lower residue level will not be used to establish a tolerance for a commodity subgroup. Most subgroups have only two representative commodities; to exclude one such commodity and its related residue data would likely provide insufficient residue information to support the remainder of the subgroup. Residue data from crops additional to those representative crops in a grouping may be required for systemic pesticides.

(i) The commodities included in the groups will be updated periodically either at the initiative of the Agency or at the request of an interested party. Persons interested in updating this section should contact the Registration Division of the Office of Pesticide Programs.

(j) Establishment of a tolerance does not substitute for the additional need to register the pesticide under a companion law, the Federal Insecticide, Fungicide, and Rodenticide Act. The Registration Division of the Office of Pesticide Programs should be contacted concerning procedures for registration of new uses of a pesticide.

[60 FR 26635, May 17, 1995]

### § 180.41 Crop group tables.

(a) The tables in this section are to be used in conjunction with §180.40 to establish crop group tolerances.

(b) Commodities not listed are not considered as included in the groups for the purposes of this paragraph, and individual tolerances must be established. Miscellaneous commodities intentionally not included in any group include asparagus, avocado, banana, cranberry, fig, globe artichoke, grape,

hops, kiwifruit, mango, mushroom, okra, papaya, pawpaw, peanut, persimmon, pineapple, strawberry, water chestnut, and watercress.

(c) Each group is identified by a group name and consists of a list of representative commodities followed by a list of all commodity members for the group. If the group includes subgroups, each subgroup lists the subgroup name, the representative commodity or commodities, and the mem-

ber commodities for the subgroup. Subgroups, which are a subset of their associated crop group, are established for some but not all crops groups.

(1) *Crop Group 1*: Root and Tuber Vegetables Group.

(i) *Representative commodities*. Carrot, potato, radish, and sugar beet.

(ii) *Table*. The following table 1 lists all the commodities included in Crop Group 1 and identifies the related crop subgroups.

TABLE 1—CROP GROUP 1: ROOT AND TUBER VEGETABLES

Commodities	Related crop subgroups
Arracacha ( <i>Arracacia xanthorrhiza</i> )	1–C, 1–D
Arrowroot ( <i>Maranta arundinacea</i> )	1–C, 1–D
Artichoke, Chinese ( <i>Stachys affinis</i> )	1–C, 1–D
Artichoke, Jerusalem ( <i>Helianthus tuberosus</i> )	1–C, 1–D
Beet, garden ( <i>Beta vulgaris</i> )	1–A, 1–B
Beet, sugar ( <i>Beta vulgaris</i> )	1–A
Burdock, edible ( <i>Arctium lappa</i> )	1–A, 1–B
Canna, edible (Queensland arrowroot) ( <i>Canna indica</i> )	1–C, 1–D
Carrot ( <i>Daucus carota</i> )	1–A, 1–B
Cassava, bitter and sweet ( <i>Manihot esculenta</i> )	1–C, 1–D
Celeriac (celery root) ( <i>Apium graveolens</i> var. <i>rapaceum</i> )	1–A, 1–B
Chayote (root) ( <i>Sechium edule</i> )	1–C, 1–D
Chervil, turnip-rooted ( <i>Chaerophyllum bulbosum</i> )	1–A, 1–B
Chicory ( <i>Cichorium intybus</i> )	1–A, 1–B
Chufa ( <i>Cyperus esculentus</i> )	1–C, 1–D
Dasheen (taro) ( <i>Colocasia esculenta</i> )	1–C, 1–D
Ginger ( <i>Zingiber officinale</i> )	1–C, 1–D
Ginseng ( <i>Panax quinquefolius</i> )	1–A, 1–B
Horseradish ( <i>Armoracia rusticana</i> )	1–A, 1–B
Leren ( <i>Calathea allouia</i> )	1–C, 1–D
Parsley, turnip-rooted ( <i>Petroselinum crispum</i> var. <i>tuberosum</i> )	1–A, 1–B
Parsnip ( <i>Pastinaca sativa</i> )	1–A, 1–B
Potato ( <i>Solanum tuberosum</i> )	1–C
Radish ( <i>Raphanus sativus</i> )	1–A, 1–B
Radish, oriental (daikon) ( <i>Raphanus sativus</i> subvar. <i>longipinnatus</i> )	1–A, 1–B
Rutabaga ( <i>Brassica campestris</i> var. <i>napobrassica</i> )	1–A, 1–B
Salsify (oyster plant) ( <i>Tragopogon porrifolius</i> )	1–A, 1–B
Salsify, black ( <i>Scorzonera hispanica</i> )	1–A, 1–B
Salsify, Spanish ( <i>Scolymus hispanicus</i> )	1–A, 1–B
Skirret ( <i>Sium sisarum</i> )	1–A, 1–B
Sweet potato ( <i>Ipomoea batatas</i> )	1–C, 1–D
Tanier (cocoyam) ( <i>Xanthosoma sagittifolium</i> )	1–C, 1–D
Turmeric ( <i>Curcuma longa</i> )	1–C, 1–D
Turnip ( <i>Brassica rapa</i> var. <i>rapa</i> )	1–A, 1–B
Yam bean (jicama, manioc pea) ( <i>Pachyrhizus</i> spp.)	1–C, 1–D
Yam, true ( <i>Dioscorea</i> spp.)	1–C, 1–D

(iii) *Table*. The following table 2 identifies the crop subgroups for Crop Group 1, specifies the representative

commodity(ies) for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 1 SUBGROUP LISTING

Representative commodities	Commodities
<b>Crop Subgroup 1–A.</b> Root vegetables subgroup.	
Carrot, radish, and sugar beet.	Beet, garden; beet, sugar; burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip.

TABLE 2—CROP GROUP 1 SUBGROUP LISTING—Continued

Representative commodities	Commodities
<b>Crop Subgroup 1-B.</b> Root vegetables (except sugar beet) subgroup. Carrot and radish. ....	Beet, garden; burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip.
<b>Crop Subgroup 1-C.</b> Tuberous and corm vegetables subgroup. Potato. ....	Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen; ginger; leren; potato; sweet potato; taniar; turmeric; yam bean; yam, true.
<b>Crop Subgroup 1-D.</b> Tuberous and corm vegetables (except potato) subgroup. Sweet potato. ....	Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen; ginger; leren; sweet potato; taniar; turmeric; yam bean; yam, true.

(2) *Crop Group 2.* Leaves of Root and Tuber Vegetables (Human Food or Animal Feed) Group (Human Food or Animal Feed) Group.

(i) *Representative commodities.* Turnip and garden beet or sugar beet.

(ii) *Commodities.* The following is a list of all the commodities included in Crop Group 2:

CROP GROUP 2: LEAVES OF ROOT AND TUBER VEGETABLES (HUMAN FOOD OR ANIMAL FEED) GROUP—COMMODITIES

- Beet, garden (*Beta vulgaris*)
- Beet, sugar (*Beta vulgaris*)
- Burdock, edible (*Arctium lappa*)
- Carrot (*Daucus carota*)
- Cassava, bitter and sweet (*Manihot esculenta*)
- Celeriac (celery root) (*Apium graveolens* var. *rapaceum*)
- Chervil, turnip-rooted (*Chaerophyllum bulbosum*)
- Chicory (*Cichorium intybus*)
- Dasheen (taro) (*Colocasia esculenta*)
- Parsnip (*Pastinaca sativa*)
- Radish (*Raphanus sativus*)
- Radish, oriental (daikon) (*Raphanus sativus* subvar. *longipinnatus*)
- Rutabaga (*Brassica campestris* var. *napobrassica*)
- Salsify, black (*Scorzonera hispanica*)
- Sweet potato (*Ipomoea batatas*)
- Taniar (cocoyam) (*Xanthosoma sagittifolium*)

- Turnip (*Brassica rapa* var. *rapa*)
- Yam, true (*Dioscorea* spp.)

(3) *Crop Group 3.* Bulb Vegetables (*Allium* spp.) Group.

(i) *Representative commodities.* Onion, green; and onion, dry bulb.

(ii) *Commodities.* The following is a list of all the commodities in Crop Group 3:

CROP GROUP 3: BULB VEGETABLES (ALLIUM SPP.) GROUP—COMMODITIES

- Garlic (*Allium sativum*)
- Garlic, great-headed (elephant) (*Allium ampeloprasum* var. *ampeloprasum*)
- Leek (*Allium ampeloprasum*, *A. porrum*, *A. tricoccum*)
- Onion, dry bulb and green (*Allium cepa*, *A. fistulosum*)
- Onion, Welch (*Allium fistulosum*)
- Shallot (*Allium cepa* var. *cepa*)

(4) *Crop Group 4.* Leafy Vegetables (Except Brassica Vegetables) Group.

(i) *Representative commodities.* Celery, head lettuce, leaf lettuce, and spinach (*Spinacia oleracea*).

(ii) *Table.* The following table 1 lists all the commodities included in Crop Group 4 and identifies the related crop subgroups.

TABLE 1—CROP GROUP 4: LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) GROUP

Commodities	Related crop subgroups
Amaranth (leafy amaranth, Chinese spinach, tampala) ( <i>Amaranthus</i> spp.) .....	4-A
Arugula (Rocket) ( <i>Eruca sativa</i> ) .....	4-A
Cardoon ( <i>Cynara cardunculus</i> ) .....	4-B
Celery ( <i>Apium graveolens</i> var. <i>dulce</i> ) .....	4-B
Celery, Chinese ( <i>Apium graveolens</i> var. <i>secalinum</i> ) .....	4-B
Celtuce ( <i>Lactuca sativa</i> var. <i>angustana</i> ) .....	4-B
Chervil ( <i>Anthriscus cerefolium</i> ) .....	4-A
Chrysanthemum, edible-leaved ( <i>Chrysanthemum coronarium</i> var. <i>coronarium</i> ) .....	4-A
Chrysanthemum, garland ( <i>Chrysanthemum coronarium</i> var. <i>spatosum</i> ) .....	4-A

TABLE 1—CROP GROUP 4: LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) GROUP—Continued

Commodities	Related crop subgroups
Corn salad ( <i>Valerianella locusta</i> ) .....	4–A
Cress, garden ( <i>Lepidium sativum</i> ) .....	4–A
Cress, upland (yellow rocket, winter cress) ( <i>Barbarea vulgaris</i> ) .....	4–A
Dandelion ( <i>Taraxacum officinale</i> ) .....	4–A
Dock (sorrel) ( <i>Rumex</i> spp.) .....	4–A
Endive (escarole) ( <i>Cichorium endivia</i> ) .....	4–A
Fennel, Florence (finocchio) ( <i>Foeniculum vulgare</i> Azoricum Group) .....	4–B
Lettuce, head and leaf ( <i>Lactuca sativa</i> ) .....	4–A
Orach ( <i>Atriplex hortensis</i> ) .....	4–A
Parsley ( <i>Petroselinum crispum</i> ) .....	4–A
Purslane, garden ( <i>Portulaca oleracea</i> ) .....	4–A
Purslane, winter ( <i>Montia perfoliata</i> ) .....	4–A
Radicchio (red chicory) ( <i>Cichorium intybus</i> ) .....	4–A
Rhubarb ( <i>Rheum rhabarbarum</i> ) .....	4–B
Spinach ( <i>Spinacia oleracea</i> ) .....	4–A
Spinach, New Zealand ( <i>Tetragonia tetragonioides</i> , <i>T. expansa</i> ) .....	4–A
Spinach, vine (Malabar spinach, Indian spinach) ( <i>Basella alba</i> ) .....	4–A
Swiss chard ( <i>Beta vulgaris</i> var. <i>cicla</i> ) .....	4–B

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 4, specifies the representative commodities for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 4 SUBGROUP LISTING

Representative commodities	Commodities
<b>Crop Subgroup 4–A.</b> Leafy greens subgroup. Head lettuce and leaf lettuce, and spinach ( <i>Spinacia oleracea</i> ).	Amaranth; arugula; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock; endive; lettuce; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); spinach; spinach, New Zealand; spinach, vine.
<b>Crop Subgroup 4–B.</b> Leaf petioles subgroup. Celery.	Cardoon; celery; celery, Chinese; celtuce; fennel, Florence; rhubarb; Swiss chard.

(5) *Crop Group 5. Brassica (Cole) Leafy Vegetables Group.*

(i) *Representative commodities.* Broccoli or cauliflower; cabbage; and mustard greens.

(ii) *Table.* The following table 1 lists all the commodities included in Crop Group 5 and identifies the related crop subgroups.

TABLE 1—CROP GROUP 5: *Brassica* (COLE) LEAFY VEGETABLES

Commodities	Related crop subgroups
Broccoli ( <i>Brassica oleracea</i> var. <i>botrytis</i> ) .....	5–A
Broccoli, Chinese (gai lon) ( <i>Brassica alboglabra</i> ) .....	5–A
Broccoli raab (rapini) ( <i>Brassica campestris</i> ) .....	5–B
Brussels sprouts ( <i>Brassica oleracea</i> var. <i>gemmifera</i> ) .....	5–A
Cabbage ( <i>Brassica oleracea</i> ) .....	5–A
Cabbage, Chinese (bok choy) ( <i>Brassica chinensis</i> ) .....	5–B
Cabbage, Chinese (napa) ( <i>Brassica pekinensis</i> ) .....	5–A
Cabbage, Chinese mustard (gai choy) ( <i>Brassica campestris</i> ) .....	5–A
Cauliflower ( <i>Brassica oleracea</i> var. <i>botrytis</i> ) .....	5–A
Cavalo broccolo ( <i>Brassica oleracea</i> var. <i>botrytis</i> ) .....	5–A
Collards ( <i>Brassica oleracea</i> var. <i>acephala</i> ) .....	5–B
Kale ( <i>Brassica oleracea</i> var. <i>acephala</i> ) .....	5–B
Kohlrabi ( <i>Brassica oleracea</i> var. <i>gongylodes</i> ) .....	5–A
Mizuna ( <i>Brassica rapa</i> Japonica Group) .....	5–B
Mustard greens ( <i>Brassica juncea</i> ) .....	5–B
Mustard spinach ( <i>Brassica rapa</i> Perviridis Group) .....	5–B

TABLE 1—CROP GROUP 5: *Brassica* (COLE) LEAFY VEGETABLES—Continued

Commodities	Related crop subgroups
Rape greens ( <i>Brassica napus</i> ) .....	5-B

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 5, specifies the representative commodity(ies) for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 5 SUBGROUP LISTING

Representative commodities	Commodities
<b>Crop Subgroup 5–A.</b> Head and stem <i>Brassica</i> subgroup Broccoli or cauliflower; and cabbage .....	Broccoli; broccoli, Chinese; brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccolo; kohlrabi
<b>Crop Subgroup 5–B.</b> Leafy <i>Brassica</i> greens subgroup. Mustard greens .....	Broccoli raab; cabbage, Chinese (bok choy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens

(6) *Crop Group 6.* Legume Vegetables (Succulent or Dried) Group.

(i) *Representative commodities.* Bean (*Phaseolus* spp.; one succulent cultivar and one dried cultivar); pea (*Pisum* spp.;

one succulent cultivar and one dried cultivar); and soybean.  
(ii) *Table.* The following table 1 lists all the commodities included in Crop Group 6 and identifies the related crop subgroups.

TABLE 1—CROP GROUP 6: LEGUME VEGETABLES (SUCCULENT OR DRIED)

Commodities	Related crop subgroups
Bean ( <i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin) .....	6-C
Bean ( <i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean) .....	6-A, 6-B, 6-C
Bean ( <i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean) .....	6-A, 6-B, 6-C
Broad bean (fava bean) ( <i>Vicia faba</i> ) .....	6-B, 6-C
Chickpea (garbanzo bean) ( <i>Cicer arietinum</i> ) .....	6-C
Guar ( <i>Cyamopsis tetragonoloba</i> ) .....	6-C
Jackbean ( <i>Canavalia ensiformis</i> ) .....	6-A
Lablab bean (hyacinth bean) ( <i>Lablab purpureus</i> ) .....	6-C
Lentil ( <i>Lens esculenta</i> ) .....	6-C
Pea ( <i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea) .....	6-A, 6-B, 6-C
Pigeon pea ( <i>Cajanus cajan</i> ) .....	6-A, 6-B, 6-C
Soybean ( <i>Glycine max</i> ) .....	N/A
Soybean (immature seed) ( <i>Glycine max</i> ) .....	6-A
Sword bean ( <i>Canavalia gladiata</i> ) .....	6-A

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 6, specifies the representative commodities for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 6 SUBGROUP LISTING

Representative commodities	Commodities
<p><b>Crop Subgroup 6-A.</b> Edible-podded legume vegetables subgroup. Any one succulent cultivar of edible-podded bean (<i>Phaseolus</i> spp.) and any one succulent cultivar of edible-podded pea (<i>Pisum</i> spp.).</p>	<p>Bean (<i>Phaseolus</i> spp.) (includes runner bean, snap bean, wax bean); bean (<i>Vigna</i> spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean); jackbean; pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean.</p>
<p><b>Crop Subgroup 6-B.</b> Succulent shelled pea and bean subgroup. Any succulent shelled cultivar of bean (<i>Phaseolus</i> spp.) and garden pea (<i>Pisum</i> spp.).</p>	<p>Bean (<i>Phaseolus</i> spp.) (includes lima bean (green)); broad bean (succulent); bean (<i>Vigna</i> spp.) (includes blackeyed pea, cowpea, southern pea); pea (<i>Pisum</i> spp.) (includes English pea, garden pea, green pea); pigeon pea.</p>
<p><b>Crop Subgroup 6-C.</b> Dried shelled pea and bean (except soybean) subgroup Any one dried cultivar of bean (<i>Phaseolus</i> spp.); and any one dried cultivar of pea (<i>Pisum</i> spp.).</p>	<p>Dried cultivars of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean; tepary bean; bean (<i>Vigna</i> spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (<i>Pisum</i> spp.) (includes field pea); pigeon pea.</p>

(7) *Crop Group 7. Foliage of Legume Vegetables Group.*

(i) *Representative commodities.* Any cultivar of bean (*Phaseolus* spp.), field pea (*Pisum* spp.), and soybean.

(ii) *Table.* The following table 1 lists the commodities included in Crop Group 7.

TABLE 1—CROP GROUP 7: FOLIAGE OF LEGUME VEGETABLES GROUP

Representative commodities	Commodities
Any cultivar of bean ( <i>Phaseolus</i> spp.) and field pea ( <i>Pisum</i> spp.), and soybean ( <i>Glycine max</i> ).	Plant parts of any legume vegetable included in the legume vegetables that will be used as animal feed.

(iii) *Table.* The following table 2 identifies the crop subgroup for Crop Group 7 and specifies the representative com-

modities for the subgroup, and lists all the commodities included in the subgroup.

TABLE 2—CROP GROUP 7 SUBGROUP LISTING

Representative commodities	Commodities
<p><b>Crop Subgroup 7-A.</b> Foliage of legume vegetables (except soybeans) subgroup Any cultivar of bean (<i>Phaseolus</i> spp.), and field pea (<i>Pisum</i> spp.).</p>	Plant parts of any legume vegetable (except soybeans) included in the legume vegetables group that will be used as animal feed.

(8) *Crop Group 8. Fruiting Vegetables (Except Cucurbits) Group.*

(i) *Representative commodities.* Tomato, bell pepper, and one cultivar of non-bell pepper.

(ii) *Commodities.* The following is a list of all the commodities included in Crop Group 8:

CROP GROUP 8: FRUITING VEGETABLES (EXCEPT CUCURBITS)—COMMODITIES

- Eggplant (*Solanum melongena*)
- Groundcherry (*Physalis* spp.)
- Pepino (*Solanum muricatum*)
- Pepper (*Capsicum* spp.) (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper)
- Tomatillo (*Physalis ixocarpa*)
- Tomato (*Lycopersicon esculentum*)

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(9) *Crop Group 9. Cucurbit Vegetables Group.*

(i) *Representative commodities.* Cucurbit, muskmelon, and summer squash.

(ii) *Table.* The following table 1 lists all the commodities included in Crop Group 9 and identifies the related subgroups.

TABLE 1—CROP GROUP 9: CUCURBIT VEGETABLES

Commodities	Related crop subgroups
Chayote (fruit) ( <i>Sechium edule</i> ) .....	9-B
Chinese waxgourd (Chinese preserving melon) ( <i>Benincasa hispida</i> ) .....	9-B
Citron melon ( <i>Citrullus lanatus</i> var. <i>citroides</i> ) .....	9-A
Cucumber ( <i>Cucumis sativus</i> ) .....	9-B
Gherkin ( <i>Cucumis anguria</i> ) .....	9-B
Gourd, edible ( <i>Lagenaria</i> spp.) (includes hyotan, cucuzza); ( <i>Luffa acutangula</i> , <i>L. cylindrica</i> ) (includes hechima, Chinese okra) .....	9-B
<i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) .....	9-B
Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i> ) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) .....	9-A
Pumpkin ( <i>Cucurbita</i> spp.) .....	9-B
Squash, summer ( <i>Cucurbita pepo</i> var. <i>melopepo</i> ) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) .....	9-B
Squash, winter ( <i>Cucurbita maxima</i> ; <i>C. moschata</i> ) (includes butternut squash, calabaza, hubbard squash); ( <i>C. mixta</i> ; <i>C. pepo</i> ) (includes acorn squash, spaghetti squash) .....	9-B
Watermelon (includes hybrids and/or varieties of <i>Citrullus lanatus</i> ) .....	9-A

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 9, specifies the representative

commodities for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 9 SUBGROUP LISTING

Representative commodities	Commodities
<b>Crop Subgroup 9-A.</b> Melon subgroup Cantaloupes .....	Citron melon; muskmelon; watermelon
<b>Crop Subgroup 9-B.</b> Squash/cucumber subgroup One cultivar of summer squash and cucumber.	Chayote (fruit); Chinese waxgourd; cucumber; gherkin; gourd, edible; <i>Momordica</i> spp.; pumpkin; squash, summer; squash, winter.

(10) *Crop Group 10. Citrus Fruits (Citrus spp., Fortunella spp.) Group.*

(i) *Representative commodities.* Sweet orange; lemon and grapefruit.

(ii) *Commodities.* The following is a list of all the commodities in Crop Group 10:

- CROP GROUP 10: CITRUS FRUITS (CITRUS SPP., FORTUNELLA SPP.) GROUP—COMMODITIES
- Calamondin (*Citrus mitis* X *Citrofortunella mitis*)
  - Citrus citron (*Citrus medica*)
  - Citrus hybrids (*Citrus* spp.) (includes chironja, tangelo, tangor)
  - Grapefruit (*Citrus paradisi*)
  - Kumquat (*Fortunella* spp.)
  - Lemon (*Citrus jambhiri*, *Citrus limon*)
  - Lime (*Citrus aurantiifolia*)
  - Mandarin (tangerine) (*Citrus reticulata*)
  - Orange, sour (*Citrus aurantium*)
  - Orange, sweet (*Citrus sinensis*)

- Pummelo (*Citrus grandis*, *Citrus maxima*)
- Satsuma mandarin (*Citrus unshiu*)

(11) *Crop Group 11: Pome Fruits Group.*

(i) *Representative commodities.* Apple and pear.

(ii) *Commodities.* The following is a list of all the commodities included in Crop Group 11:

- CROP GROUP 11: POME FRUITS GROUP—COMMODITIES
- Apple (*Malus domestica*)
  - Crabapple (*Malus* spp.)
  - Loquat (*Eriobotrya japonica*)
  - Mayhaw (*Crataegus aestivalis*, *C. opaca*, and *C. rufula*)
  - Pear (*Pyrus communis*)
  - Pear, oriental (*Pyrus pyrifolia*)
  - Quince (*Cydonia oblonga*)

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(12) *Crop Group 12. Stone Fruits Group.*

(i) *Representative commodities.* Sweet cherry or tart cherry; peach; and plum or fresh prune (*Prunus domestica*, *Prunus* spp.)

(ii) *Commodities.* The following is a list of all the commodities included in Crop Group 12:

CROP GROUP 12: STONE FRUITS GROUP—  
COMMODITIES

- Apricot (*Prunus armeniaca*)
- Cherry, sweet (*Prunus avium*),
- Cherry, tart (*Prunus cerasus*)
- Nectarine (*Prunus persica*)

- Peach (*Prunus persica*)
- Plum (*Prunus domestica*, *Prunus* spp.)
- Plum, Chickasaw (*Prunus angustifolia*)
- Plum, Damson (*Prunus domestica* spp. *insititia*)
- Plum, Japanese (*Prunus salicina*)
- Plumcot (*Prunus armeniaca* X *P. domestica*)
- Prune (fresh) (*Prunus domestica*, *Prunus* spp.)

(13) *Crop Group 13. Berries Group.*

(i) *Representative commodities.* Any one blackberry or any one raspberry; and blueberry.

(ii) *Table.* The following table 1 lists all the commodities included in Crop Group 13 and identifies the related subgroups.

TABLE 1—CROP GROUP 13: BERRIES GROUP

Commodities	Related crop subgroups
Blackberry ( <i>Rubus eubatus</i> ) (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, Lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or hybrids of these) .....	13-A
Blueberry ( <i>Vaccinium</i> spp.) .....	13-B
Currant ( <i>Ribes</i> spp.) .....	13-B
Elderberry ( <i>Sambucus</i> spp.) .....	13-B
Gooseberry ( <i>Ribes</i> spp.) .....	13-B
Huckleberry ( <i>Gaylussacia</i> spp.) .....	13-B
Loganberry ( <i>Rubus loganobaccus</i> ) .....	13-A
Raspberry, black and red ( <i>Rubus occidentalis</i> , <i>Rubus strigosus</i> , <i>Rubus idaeus</i> ) .....	13-A

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 13, specifies the representative

commodities for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 13 SUBGROUPS LISTING

Representative commodities	Commodities
<b>Crop Subgroup 13-A.</b> Caneberry (blackberry and raspberry) subgroup. Any one blackberry or any one raspberry. ....	Blackberry; loganberry; red and black raspberry; cultivars and/or hybrids of these.
<b>Crop Subgroup 13-B.</b> Bushberry subgroup. Blueberry, highbush. ....	Blueberry, highbush and lowbush; currant; elderberry; gooseberry; huckleberry.

(14) *Crop Group 14. Tree Nuts Group.*

(i) *Representative commodities.* Almond and pecan.

(ii) *Commodities.* The following is a list of all the commodities included in Crop Group 14:

CROP GROUP 14: TREE NUTS—COMMODITIES

- Almond (*Prunus dulcis*)
- Beech nut (*Fagus* spp.)
- Brazil nut (*Bertholletia excelsa*)
- Butternut (*Juglans cinerea*)
- Cashew (*Anacardium occidentale*)
- Chestnut (*Castanea* spp.)

- Chinquapin (*Castanea pumila*)
- Filbert (hazelnut) (*Corylus* spp.)
- Hickory nut (*Carya* spp.)
- Macadamia nut (bush nut) (*Macadamia* spp.)
- Pecan (*Carya illinoensis*)
- Walnut, black and English (Persian) (*Juglans* spp.)

(15) *Crop Group 15. Cereal Grains Group.*

(i) *Representative commodities.* Corn (fresh sweet corn and dried field corn), rice, sorghum, and wheat.

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(ii) *Commodities*. The following is a list of all the commodities included in Crop Group 15:

CROP GROUP 15: CEREAL GRAINS—  
COMMODITIES

- Barley (*Hordeum* spp.)
- Buckwheat (*Fagopyrum esculentum*)
- Corn (*Zea mays*)
- Millet, pearl (*Pennisetum glaucum*)
- Millet, proso (*Panicum milliaceum*)
- Oats (*Avena* spp.)
- Popcorn (*Zea mays* var. *evarta*)
- Rice (*Oryza sativa*)
- Rye (*Secale cereale*)
- Sorghum (milo) (*Sorghum* spp.)
- Teosinte (*Euchlaena mexicana*)
- Triticale (*Triticum-Secale* hybrids)
- Wheat (*Triticum* spp.)
- Wild rice (*Zizania aquatica*)

(16) *Crop Group 16*. Forage, Fodder and Straw of Cereal Grains Group.

(i) *Representative commodities*. Corn, wheat, and any other cereal grain crop.

(ii) *Commodities*. The commodities included in Crop Group 16 are: Forage, fodder, and straw of all commodities included in the group cereal grains group.

(17) *Crop Group 17*. Grass Forage, Fodder, and Hay Group.

(i) *Representative commodities*. Bermuda grass; bluegrass; and bromegrass or fescue.

(ii) *Commodities*. The commodities included in Crop Group 17 are: Any grass, *Gramineae* family (either green or

cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage.

(18) *Crop Group 18*. Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Group.

(i) *Representative commodities*. Alfalfa and clover (*Trifolium* spp.)

(ii) *Commodities*. The following is a list of all the commodities included in Crop Group 18:

CROP GROUP 18: NONGRASS ANIMAL FEEDS  
(FORAGE, FODDER, STRAW, AND HAY)  
GROUP—COMMODITIES

- Alfalfa (*Medicago sativa* subsp. *sativa*)
- Bean, velvet (*Mucuna pruriens* var. *utilis*)
- Clover (*Trifolium* spp., *Melilotus* spp.)
- Kudzu (*Pueraria lobata*)
- Lespedeza (*Lespedeza* spp.)
- Lupin (*Lupinus* spp.)
- Sainfoin (*Onobrychis viciifolia*);
- Trefoil (*Lotus* spp.)
- Vetch (*Vicia* spp.)
- Vetch, crown (*Coronilla varia*)
- Vetch, milk (*Astragalus* spp.)

(19) *Crop Group 19*. Herbs and Spices Group.

(i) *Representative commodities*. Basil (fresh and dried); black pepper; chive; and celery seed or dill seed.

(ii) *Table*. The following table 1 lists all the commodities included in Crop Group 19 and identifies the related subgroups.

TABLE 1—CROP GROUP 19: HERBS AND SPICES GROUP

Commodities	Related crop subgroups
Allspice ( <i>Pimenta dioica</i> )	19-B
Angelica ( <i>Angelica archangelica</i> )	19-A
Anise (anise seed) ( <i>Pimpinella anisum</i> )	19-B
Anise, star ( <i>Illicium verum</i> )	19-B
Annatto (seed)	19-B
Balm (lemon balm) ( <i>Melissa officinalis</i> )	19-A
Basil ( <i>Ocimum basilicum</i> )	19-A
Borage ( <i>Borago officinalis</i> )	19-A
Burnet ( <i>Sanguisorba minor</i> )	19-A
Camomile ( <i>Anthemis nobilis</i> )	19-A
Caper buds ( <i>Capparis spinosa</i> )	19-B
Caraway ( <i>Carum carvi</i> )	19-B
Caraway, black ( <i>Nigella sativa</i> )	19-B
Cardamom ( <i>Elettaria cardamomum</i> )	19-B
Cassia bark ( <i>Cinnamomum aromaticum</i> )	19-B
Cassia buds ( <i>Cinnamomum aromaticum</i> )	19-B
Catnip ( <i>Nepeta cataria</i> )	19-A
Celery seed ( <i>Apicum graveolens</i> )	19-B
Chervil (dried) ( <i>Anthriscus cerefolium</i> )	19-A
Chive ( <i>Allium schoenoprasum</i> )	19-A
Chive, Chinese ( <i>Allium tuberosum</i> )	19-A
Cinnamon ( <i>Cinnamomum verum</i> )	19-B
Clary ( <i>Salvia sclarea</i> )	19-A
Clove buds ( <i>Eugenia caryophyllata</i> )	19-B

TABLE 1—CROP GROUP 19: HERBS AND SPICES GROUP—Continued

Commodities	Related crop subgroups
Coriander (cilantro or Chinese parsley) (leaf) ( <i>Coriandrum sativum</i> )	19–A
Coriander (cilantro) (seed) ( <i>Coriandrum sativum</i> )	19–B
Costmary ( <i>Chrysanthemum balsamita</i> )	19–A
Culantro (leaf) ( <i>Eryngium foetidum</i> )	19–A
Culantro (seed) ( <i>Eryngium foetidum</i> )	19–B
Cumin ( <i>Cuminum cyminum</i> )	19–B
Curry (leaf) ( <i>Murraya koenigii</i> )	19–A
Dill (dillweed) ( <i>Anethum graveolens</i> )	19–A
Dill (seed) ( <i>Anethum graveolens</i> )	19–B
Fennel (common) ( <i>Foeniculum vulgare</i> )	19–B
Fennel, Florence (seed) ( <i>Foeniculum vulgare</i> Azoricum Group)	19–B
Fenugreek ( <i>Trigonella foenumgraecum</i> )	19–B
Grains of paradise ( <i>Aframomum melegueta</i> )	19–B
Horehound ( <i>Marrubium vulgare</i> )	19–A
Hyssop ( <i>Hyssopus officinalis</i> )	19–A
Juniper berry ( <i>Juniperus communis</i> )	19–B
Lavender ( <i>Lavandula officinalis</i> )	19–A
Lemongrass ( <i>Cymbopogon citratus</i> )	19–A
Lovage (leaf) ( <i>Levisticum officinale</i> )	19–A
Lovage (seed) ( <i>Levisticum officinale</i> )	19–B
Mace ( <i>Myristica fragrans</i> )	19–B
Marigold ( <i>Calendula officinalis</i> )	19–A
Marjoram ( <i>Origanum</i> spp.) (includes sweet or annual marjoram, wild marjoram or oregano, and pot marjoram)	19–A
Mustard (seed) ( <i>Brassica juncea</i> , <i>B. hirta</i> , <i>B. nigra</i> )	19–B
Nasturtium ( <i>Tropaeolum majus</i> )	19–A
Nutmeg ( <i>Myristica fragrans</i> )	19–B
Parsley (dried) ( <i>Petroselinum crispum</i> )	19–A
Pennyroyal ( <i>Mentha pulegium</i> )	19–A
Pepper, black ( <i>Piper nigrum</i> )	19–B
Pepper, white	19–B
Poppy (seed) ( <i>Papaver somniferum</i> )	19–B
Rosemary ( <i>Rosemarinus officinalis</i> )	19–A
Rue ( <i>Ruta graveolens</i> )	19–A
Saffron ( <i>Crocus sativus</i> )	19–B
Sage ( <i>Salvia officinalis</i> )	19–A
Savory, summer and winter ( <i>Satureja</i> spp.)	19–A
Sweet bay (bay leaf) ( <i>Laurus nobilis</i> )	19–A
Tansy ( <i>Tanacetum vulgare</i> )	19–A
Tarragon ( <i>Artemisia dracunculoides</i> )	19–A
Thyme ( <i>Thymus</i> spp.)	19–A
Vanilla ( <i>Vanilla planifolia</i> )	19–B
Wintergreen ( <i>Gaultheria procumbens</i> )	19–A
Woodruff ( <i>Galium odorata</i> )	19–A
Wormwood ( <i>Artemisia absinthium</i> )	19–A

(iii) *Table.* The following table 2 identifies the crop subgroups for Crop Group 19, specifies the representative commodities for each subgroup, and lists all the commodities included in each subgroup.

TABLE 2—CROP GROUP 19 SUBGROUPS

Representative commodities	Commodities
<p><b>Crop Subgroup 19–A.</b> Herb subgroup.</p> <p>Basil (fresh and dried) and chive. ....</p>	<p>Angelica; balm; basil; borage; burnet; camomile; catnip; chervil (dried); chive; chive, Chinese, clary; coriander (leaf); costmary; culantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram (<i>Origanum</i> spp.); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood.</p>

TABLE 2—CROP GROUP 19 SUBGROUPS—Continued

Representative commodities	Commodities
<b>Crop Subgroup 19-B.</b> Spice subgroup. Black pepper; and celery seed or dill seed. ....	Allspice; anise (seed); anise, star; annatto (seed); caper (buds); caraway; caraway, black; cardamom; cassia (buds); celery (seed); cinnamon; clove (buds); coriander (seed); culantro (seed); cumin; dill (seed); fennel, common; fennel, Florence (seed); fenugreek; grains of paradise; juniper (berry); lovage (seed); mace; mustard (seed); nutmeg; pepper, black; pepper, white; poppy (seed); saffron; and vanilla.

[60 FR 26635, May 17, 1995]

**Subpart C—Specific Tolerances**

EDITORIAL NOTE: Nomenclature changes to subpart C appear at 67 FR 41803–41808, June 19, 2002, and at 67 FR 42393–42397, June 21, 2002.

**§ 180.101 Specific tolerances; general provisions.**

(a) The tolerances established for pesticide chemicals in this subpart C apply to residues resulting from their application prior to harvest or slaughter, unless otherwise stated. Tolerances are expressed in terms of parts by weight of the pesticide chemical per one million parts by weight of the raw agricultural commodity.

(b) The poisonous and deleterious substances for which tolerances are established by the regulations in this subpart C are named by their common names wherever practicable, otherwise by their chemical names.

(c) The analytical methods to be used for determining whether pesticide residues, including negligible residues, in or on raw agricultural commodities are in compliance with the tolerances established in this part 180 are identified among the methods contained or referenced in the Food and Drug Administration’s “Pesticide Analytical Manual” which is available from the Food and Drug Administration, Department of Health, Education, and Welfare, 200 C Street SW., Washington, DC 20204.

**§ 180.103 Captan; tolerances for residues.**

(a) Tolerances are established for residues of the fungicide captan (*N*-trichloromethylthio-4-cyclohexene-1,2-dicarboximide) from preharvest and postharvest uses or combinations of

such uses in or on the following raw agricultural commodities:

Commodity	Parts per million
Apple .....	25
Apricot .....	50
Beet, greens .....	100
Beet, roots .....	2
Blackberry .....	25
Blueberry (huckleberry) .....	25
Broccoli .....	2
Brussels sprouts .....	2
Cabbage .....	2
Cantaloups .....	25
Carrots .....	2
Cattle, fat .....	0.05
Cattle, meat .....	0.05
Cattle, meat byproducts .....	0.05
Cauliflower .....	2
Celery .....	50
Cherry .....	100
Collards .....	2
Corn, sweet, kernel plus cob with husks removed .....	2
Cottonseed .....	2
Cucumber .....	25
Dewberry .....	25
Eggplant .....	25
Grape .....	50
Hog, fat .....	0.05
Hog, meat .....	0.05
Hog, meat byproducts .....	0.05
Kale .....	2
Lettuce .....	100
Mango .....	50
Melon, honeydew .....	25
Muskmelon .....	25
Mustard greens .....	2
Nectarine .....	50
Onion, dry bulb .....	25
Onion, green .....	50
Peach .....	50
Pear .....	25
Pea, dry .....	2
Pea, succulent .....	2
Plum, prune, fresh .....	100
Pepper .....	25
Pumpkin .....	25
Raspberry .....	25
Rutabagas (roots) .....	2
Soybean, dry .....	2
Soybean, succulent .....	2
Spinach .....	100
Squash, summer .....	25
Squash, winter .....	25
Strawberry .....	25
Tomato .....	25
Turnip, greens .....	2.0
Turnip, roots .....	2.0
Watermelon .....	25.0