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for the purpose of paragraph (d) of this section. This grouping of crops does not affect the certification of usefulness by the Administrator as contemplated by section 408(l) of the act.

- (1) Apples, crabapples, pears, quinces.
- (2) Avocados, papayas.
- (3) Blackberries, boysenberries, dewberries, loganberries, raspberries.
- (4) Blueberries, currants, gooseberries, huckleberries.
- (5) Cherries, plums, prunes.
- (6) Oranges, citrus citron, grapefruit, kumquats, lemons, limes, tangelos, tangerines.
- (7) Mangoes, persimmons.
- (8) Peaches, apricots, nectarines.
- (9) Beans, peas, soybeans (each in dry form).
- (10) Beans, peas, soybeans (each in succulent form).
- (11) Broccoli, brussels sprouts, cauliflower, kohlrabi.
- (12) Cantaloups, honeydew melons, muskmelons, pumpkins, watermelons, winter squash.
- (13) Carrots, garden beets, sugar beets, horseradish, parsnips, radishes, rutabagas, salsify roots, turnips.
- (14) Celery, fennel.
- (15) Cucumbers, summer squash.
- (16) Lettuce, endive (escarole), Chinese cabbage, salsify tops.
- (17) Onions, garlic, leeks, shallots (green, or in dry bulb form).
- (18) Potatoes, Jerusalem-artichokes, sweetpotatoes, yams.
- (19) Spinach, beet tops, collards, dandelion, kale, mustard greens, parsley, Swiss chard, turnip tops, watercress.
- (20) Tomatoes, eggplants, peppers, pimentos.
- (21) Pecans, almonds, brazil nuts, bush nuts, butternuts, chestnuts, filberts, hazelnuts, hickory nuts, walnuts.
- (22) Field corn, popcorn, sweet corn (each in grain form).
- (23) Milo, sorghum (each in grain form).
- (24) Wheat, barley, oats, rice, rye (each in grain form).
- (25) Alfalfa, Bermuda grass, bluegrass, brome grass, clovers, cowpea hay, fescue, lespedeza, lupines, orchard grass, peanut hay, peavine hay, rye grass, soybean hay, sudan grass, timothy, and vetch.
- (26) Corn forage, sorghum forage.

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- (27) Sugarcane, cane sorghum.

[36 FR 22540, Nov. 25, 1971, as amended at 39 FR 28286, Aug. 6, 1974; 39 FR 28977, Aug. 13, 1974; 40 FR 6972, Feb. 18, 1975; 45 FR 82928, Dec. 17, 1980; 48 FR 29860, June 29, 1983; 60 FR 26635, May 17, 1995]

§ 180.35 Tests for potentiation.

Experiments have shown that certain cholinesterase-inhibiting pesticides when fed together to test animals are more toxic than the sum of their individual toxicities when fed separately. One substance potentiates the toxicity of the other. Important toxicological interactions also have been observed between pesticides and other substances. Wherever there is reason to believe that a pesticide chemical for which a tolerance is proposed may interact with other pesticide chemicals or other substances to which man is exposed, it may be necessary to require special experimental data regarding potentiation capacities to evaluate the safety of the proposed tolerance. This necessarily will be determined on a case-by-case basis.

§ 180.40 Tolerances for crop groups.

(a) Group or subgroup tolerances may be established as a result of:

(1) A petition from a person who has submitted an application for the registration of a pesticide under the Federal Insecticide, Fungicide, and Rodenticide Act.

(2) On the initiative of the Administrator.

(3) A petition by an interested person.

(b) The tables in §180.41 are to be used in conjunction with this section for the establishment of crop group tolerances. Each table in §180.41 lists a group of raw agricultural commodities that are considered to be related for the purposes of this section. Refer also to §180.1(h) for a listing of commodities for which established tolerances may 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

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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. Tolerances will not be granted on a group basis as to processed foods prepared from crops covered by the group tolerance.

(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) When EPA amends a crop group in a manner that expands or contracts the commodities that are covered by the group, EPA will initially retain the pre-existing as well as the revised crop group in the CFR. The revised crop group will have the same number as the pre-existing crop group; however, the revised crop group number will be followed by a hyphen and the final two digits of the year in which it was established (e.g., if Crop Group 1 is amended in 2007, the revised group will be designated as Crop Group 1-07). If the pre-existing crop group had crop subgroups, these subgroups will be numbered in a similar fashion in the revised crop group. The name of the revised crop group will not be changed from the pre-existing crop group unless the revision so changes the composition of the crop group that the pre-existing name is no longer accurate. Once a revised crop group is established, EPA will no longer establish tolerances under the pre-existing crop group. At appropriate times, EPA will amend tolerances for crop groups that have been superseded by revised crop groups to conform the pre-existing crop group to the revised crop group. Once all of the

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tolerances for the pre-existing crop group have been updated, the pre-existing crop group will be removed from the CFR.

(k) 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, as amended at 70 FR 33363, June 8, 2005; 72 FR 69155, Dec. 7, 2007]

§ 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 in-

tentionally not included in any group include asparagus, avocado, banana, fig, globe artichoke, hops, mango, okra, papaya, pawpaw, peanut, persimmon, pineapple, 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 member 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>)	1C, 1D
Arrowroot (<i>Maranta arundinacea</i>)	1C, 1D
Artichoke, Chinese (<i>Stachys affinis</i>)	1C, 1D
Artichoke, Jerusalem (<i>Helianthus tuberosus</i>)	1C, 1D
Beet, garden (<i>Beta vulgaris</i>)	1A, 1B
Beet, sugar (<i>Beta vulgaris</i>)	1A
Burdock, edible (<i>Arctium lappa</i>)	1A, 1B
Canna, edible (Queensland arrowroot) (<i>Canna indica</i>)	1C, 1D
Carrot (<i>Daucus carota</i>)	1A, 1B
Cassava, bitter and sweet (<i>Manihot esculenta</i>)	1C, 1D
Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>)	1A, 1B
Chayote (root) (<i>Sechium edule</i>)	1C, 1D
Chervil, turnip-rooted (<i>Chaerophyllum bulbosum</i>)	1A, 1B
Chicory (<i>Cichorium intybus</i>)	1A, 1B
Chufa (<i>Cyperus esculentus</i>)	1C, 1D
Dasheen (taro) (<i>Colocasia esculenta</i>)	1C, 1D
Ginger (<i>Zingiber officinale</i>)	1C, 1D
Ginseng (<i>Panax quinquefolius</i>)	1A, 1B
Horseradish (<i>Armoracia rusticana</i>)	1A, 1B
Leren (<i>Calathea allouia</i>)	1C, 1D
Parsley, turnip-rooted (<i>Petroselinum crispum</i> var. <i>tuberosum</i>)	1A, 1B
Parsnip (<i>Pastinaca sativa</i>)	1A, 1B
Potato (<i>Solanum tuberosum</i>)	1C
Radish (<i>Raphanus sativus</i>)	1A, 1B
Radish, oriental (daikon) (<i>Raphanus sativus</i> subvar. <i>longipinnatus</i>)	1A, 1B
Rutabaga (<i>Brassica campestris</i> var. <i>napobrassica</i>)	1A, 1B
Salsify (oyster plant) (<i>Tragopogon porrifolius</i>)	1A, 1B
Salsify, black (<i>Scorzonera hispanica</i>)	1A, 1B
Salsify, Spanish (<i>Scolymus hispanicus</i>)	1A, 1B
Skirret (<i>Sium sisarum</i>)	1A, 1B
Sweet potato (<i>Ipomoea batatas</i>)	1C, 1D
Tanier (cocoyam) (<i>Xanthosoma sagittifolium</i>)	1C, 1D
Turmeric (<i>Curcuma longa</i>)	1C, 1D
Turnip (<i>Brassica rapa</i> var. <i>rapa</i>)	1A, 1B
Yam bean (jicama, manioc pea) (<i>Pachyrhizus</i> spp.)	1C, 1D
Yam, true (<i>Dioscorea</i> spp.)	1C, 1D