

# CODEX ALIMENTARIUS COMMISSION



Food and Agriculture  
Organization of  
the United Nations



World Health  
Organization

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Agenda Item 7(c)

CX/PR 12/44/10  
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## JOINT FAO/WHO FOOD STANDARDS PROGRAMME

### CODEX COMMITTEE ON PESTICIDE RESIDUES

44<sup>th</sup> Session

Shanghai, P.R. China, 23 - 28 April 2012

#### PROPOSED DRAFT REVISION OF THE CODEX CLASSIFICATION OF FOODS AND ANIMAL FEEDS AT STEP 4: *SELECTED VEGETABLE COMMODITY GROUPS*

Governments and interested international organizations wishing to submit comments on the above (see Appendices I through III) are invited to do so in writing to: Ms. Duang Lifang, Institute for the Control of Agrochemicals, Ministry of Agriculture (ICAMA), P.R. China, Fax: +86-10-59194252, Email: [ccpr@agri.gov.cn](mailto:ccpr@agri.gov.cn) (*preferred*) with a copy to: Secretariat, Codex Alimentarius Commission, Joint WHO/FAO Food Standards Programme, FAO, Viale delle Terme di Caracalla, 00153 Rome, Italy, by Email [codex@fao.org](mailto:codex@fao.org) (*preferred*) or Fax: +39-06-5705-4593 by 31 March 2012.

#### Revision of the Codex Classification of Foods and Animal Feeds – Commodity groups at Step 4

#### Proposals for three Vegetable Commodity Groups: Brassica (cole or cabbage) vegetables, Head cabbages and Flowerhead cabbages (010), Leafy vegetables (including brassica leafy vegetables) (013) and Stalk and stem vegetables (017)

#### Background

1. At the 43<sup>rd</sup> Session (2011), the Committee agreed to re-establish the Electronic Working Group (EWG) led by the Netherlands and the United States of America, working in English only, to prepare new draft proposals for selected vegetable commodity groups.<sup>1</sup>

2. The proposals for the revised groups of Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead cabbages, Leafy vegetables (including brassica leafy vegetables) and Stalk and Stem vegetables were submitted to the Electronic Working Group for consideration. The proposals for the revised commodity groups are amended according to the received comments. Only Republic of Korea submitted comments on the proposals. The proposals for the revised commodity groups are presented in Appendices I, II and III. The working documents with further background information could be send upon request.

#### Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead cabbages

3. The proposed revised group “Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead cabbages” is included in Appendix I.

4. The group 010 “Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead cabbages” is divided in 3 subgroups:

10A Flowerhead Brassicas

10B Head Brassicas

10C Stem Brassicas

In the current classification codes are available for the group of Flowerhead brassicas and Cabbages, head. Also the EC has separate subgroups for the Flowering Brassicas and Head brassicas. The USA does not have a subgrouping in their draft revised Brassica head and stem vegetable group. Therefore it is proposed to make the above subgrouping.

<sup>1</sup> REP11/PR, para. 101.

5. No new commodities are proposed to include in the Brassica (cole or cabbage) vegetables and flowerhead brassica group. Only some synonyms of existing commodities are included.

6. In the current classification the commodity "Chinese broccoli" is grouped under the commodity VB 0042 Flowerhead Brassicas which includes Broccoli, Broccoli, Chinese and Cauliflower. The US proposes in their draft proposal to include Broccoli, Chinese under the subgroup Brassica leafy vegetables in the Leafy vegetable group, because the morphology of the commodity is of a leafy nature rather than forming a tight head similar to the other members of this group and can have higher residues than the representative commodities. The EU group under Broccoli also the commodities Calabrese, Chinese broccoli, Broccoli raab (rapini). (Rapini is similar in shape to the Chinese *Brassica oleracea* cultivar called *kai-lan*)

It is proposed to move the Chinese broccoli and Broccoli raab in the group of Leafy vegetables, subgroup Leafy brassica greens.

7. In the current classification the commodity "Chinese cabbage (Pe-tsai type)" is in the group of leafy vegetables. The US proposes in their draft proposal to include Chinese cabbage (napa) in the Brassica vegetables, because the appearance is similar to head cabbages (it also forms heads). The EU groups Chinese cabbage in the group of Brassica vegetables (Leafy brassicas).

It is proposed to move Chinese Cabbage (Pe-tsai type) to the Brassica vegetables group, subgroup Head Brassicas.

8. In the current classification "Kohlrabi" is classified in the Brassica (cole or cabbage) vegetables and Head cabbage, Flowerhead cabbages. In the definition of Brassica (cole or cabbage) vegetables and Head cabbage, Flowerhead cabbages of the Codex Classification stems are also included. The US proposes in their draft proposal to include kohlrabi in the group of Stalk and Stem vegetables, because kohlrabi has an enlarged, bulb-like stem fully exposed to the pesticides and can have higher pesticides residues than the representative commodities. The EU classifies Kohlrabi as a separate commodity in the Brassica vegetable group.

It is proposed to keep Kohlrabi as a separate commodity in the Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead brassicas group.

9. The Republic of Korea would like to include Kimchi cabbage as a reference to Chinese cabbage (Pe-tsai type).

#### Leafy vegetables (including Brassica leafy vegetables)

10. The proposed revised group "Leafy vegetables (including Brassica leafy vegetables)" is included in Appendix II.

11. The group 006 "Leafy vegetables (including Brassica leafy vegetables)" is divided in 5 subgroups, 013A Leafy greens

013B Brassica Leafy vegetables

013C Leaves of root and tuber vegetables

013D Leaves of trees, shrubs and vines

013E Leafy aquatic vegetables

12. Leafy Brassicas are already in the current classification classified in this group.

It is proposed to make a separate subgroup of Brassica leafy vegetables. It is also proposed to make a subgroup of leaves of root and tuber vegetables (human food) according to US draft proposal.

13. Aquatic vegetables (Kangkung) are listed in the current leafy vegetable group.

It is proposed to have a subgroup of aquatic leafy vegetables. It could also be considered to make a new commodity group of aquatic vegetables.

14. Leaves of trees and vines are listed in the current classification (Grape leaves and Papaya leaves).

It is proposed to include a subgroup for Leaves of trees, shrubs and vines.

15. The existing commodities in the group of leafy vegetables are divided among the subgroups as proposed below:

013A Leafy greens subgroup:

- Amaranth
- Blackjack
- Chard
- Chervil
- Chicory leaves (green and red cultivars)
- Corn salad (Lamb's lettuce)
- Cos lettuce
- Dandelion
- Dock
- Endive
- Goosefoot
- Lettuce, Head
- Lettuce, Leaf
- New Zealand spinach
- Orach
- Plantain leaves
- Purslane
- Purslane, winter
- Sowthistle
- Spinach
- Spinach, Indian

013B Brassica leafy vegetables:

- Broccoli, Chinese (from Brassica vegetables)
- Chinese cabbage
- Choisum
- Cress, garden
- Indian mustard
- Japanese greens
- Kale

- Komatsuma
- Mustard greens
- Pak-choi or paksoi
- Radish leaves
- Rape greens
- Rucola (Arrugula)
- Rutabaga greens
- Turnip greens
- Watercress

013C Leaves of root and tuber vegetables:

- Casava leaves
- Salsify leaves
- Sweet potato leaves
- Tannia leaves
- Taro leaves

013D Leaves of leafy trees, shrub and vines:

- Grape leaves
- Papaya leaves

013E Leafy aquatic vegetables:

- Kangkung

16. Other existing commodities which are not included in one of the above listed subgroups:

- VL 0421 Balsam pear leaves (*Momordia charantia*). In the draft expanded US crop grouping system this commodity is not included in the group of leafy vegetables, because they don't readily fit in one of the proposed subgroups, because of the morphology of the leaves. It must be considered to make a new subgroup of leaves of Cucurbitaceae. Also new commodities could be included in that subgroup such as leaves of bitter melon, chayote, edible gourd and pumpkin.
- VL 0461 Betel leaves (*Piper betle*). This commodity is not included because of carcinogenicity.
- VL 0462 Boxthorn (*Lycium Chinense*). This commodity is mostly used for tea. Confirmation is needed if leaves are used as vegetable in China.
- VL 0467 Chinese cabbage (type pe-tsai) (celery cabbage) is moved to the Brassica vegetables group
- VL 0484 Mallow (*Malva* spp.). This commodity is mainly used as flavouring. It must be considered to include this commodity in the Herbs group.
- VL 0471 March marigold (*Caltha palustris*) This plant is a poisonous weed (*Ranunculaceae*).

- VL 0487 Nightshade black (*Solanum nigrum*). Confirmation is needed if this commodity is used as a vegetable. (According to Wikipedia: In Greece the leaves are one of the ingredients included in the salad of boiled greens known as horta)
- VL 0489 Pepper leaves (*P. auritum* (contains safrole, which is carcinogenic); *P. umbellatum* (used to flavour Nigerian stews (Wikipedia)). This commodity is one of the commodities between square brackets in the revised group of Herbs (in Step 7). It is proposed to transfer this commodity to the group of Herbs in future
- VL 0491 Pokeweed. The leaves of this commodity are poisonous
- VL 0446 Roselle leaves. The green leaves are used like a spicy version of spinach (Wikipedia). The importance in trade must be confirmed
- VL 0499 Sea kale. This commodity is transferred to the group of Stalk and stem vegetables
- VL 0500 Senna leaves This commodity has a medicinal use and no food use
- VL 0479 Japanese greens is a commodity group which contains of a number of commodities, which are now divided among different subgroups. The proposal is to delete this commodity and list only the individual commodities.
- VL 478 Indian Mustard is included in VL 485 Mustard greens.

17. The new commodities proposed to include in the group of "Leafy vegetables":

In the subgroup 013A "Leafy greens":

- Agretti
- Aster, Indian
- Bellflower, Chinese leaves
- Cat's Whiskers
- Cham-chwi
- Cham-na-mul
- Chipilin
- Chrysanthemum, edible leaved
- Cosmos
- Dol-nam-mul
- Ebolo
- Fameflower
- Feather cockscomb
- Glasswort
- Huauzontle (include in Goosefoot)
- Iceplant
- Jute
- Lettuce, bitter

- Tanier Spinach
- Violet, Chinese

In the subgroup 013B "Brassica leafy vegetables":

- Alexanders leaves
- Cabbage, Abyssinian
- Cabbage seakale
- Chinese flat cabbage
- Cress, Upland
- Hanover salad
- Maca
- Purple stem mustard
- Shepherd's purse

In the subgroup 013C "Leaves of root and tuber vegetables":

- Chayote leaves
- Mustard, tuberous rooted Chinese
- Melientha
- Rampion leaves
- Ulluco leaves
- Velvet plant leaves
- Yam leaves

In the subgroup 013E "Leafy aquatic vegetables":

- Water mimosa

18. Most of the new commodities originate from the expanded US crop grouping system by the International Crop Grouping Consulting Committee (ICGCC).

From the limited revision project the following commodities were proposed to include in this group:

- Fameflower in "Leafy greens" subgroup
- Meleintha in "Leaves of leafy trees, shrub and vines" subgroup
- Water mimosa in "Leafy aquatic vegetables" subgroup

19. It is proposed to include Witloof (chicory sprouts) coming from the stalk and stem vegetables in this group and in the subgroup of "Leaves of root and tuber vegetables"

20. VL 0475 Dock (*Rumex* spp.) is currently in the leafy vegetable group. In the group of Herbs HH 0746 Sorrel, common (*Rumex* spp.) is included. It must be considered to transfer Sorrel, common in the group of leafy vegetables in the commodity Dock.

21. The Republic of Korea proposed some new commodities: Cham-ssuk, Dang-gwi, Gom-chwi, Perilla leaves (included in the revised Herbs group), San-ma-neul (is an *Allium* and should be included in the Bulb vegetable group), leaf and Sun-cha (Watershield) and synonyms of scientific names for Cham-chwi and Cham-na-mul.

### Stalk and Stem vegetables

22. The proposed revised group "Stalk and stem vegetables" is included in Appendix III.

23. Commodities in this group are divided in 3 subgroups:

17A Stalk and stem vegetables - Stems and Petioles subgroup

17B Stalk and stem vegetables - Young shoots subgroup

17C Stalk and stem vegetables - Others

24. The group of Stalk and stem vegetables contains very different commodities, which make subgrouping very difficult. It is proposed to make subgroups based on the morphology, growing practice and possible residue behaviour of the commodities. The proposal for subgrouping is not according to the US proposal. (US Subgroups: Stalk and Stem vegetables: Agave; Asparagus; Bamboo shoots; Cactus; Celtuce; Fennel, Florence, fresh leaves and stalk; Kale, sea; Kohlrabi; Palm hearts; Leafy Petiole Vegetable: Burdock, edible, tops; Cardoon; Celery; Celery, Chinese; Fuki; Rhubarb; Udo; Zuiki). Classifications in other countries don't have subgroups in the group of Stalk and stem vegetables.

25. In this proposal a part of the commodities are young shoots and others are older stems and stalks, of which sometimes also leaves are consumed. The commodities of young shoots are harvested shortly after they emerge out of the ground and the leaves are unfolded or partly unfolded. Some commodities could not be grouped in the subgroups Stems and Petioles or Young shoots and are placed in a subgroup of "Others".

26. The existing commodities in the group of Stalk and stem vegetables are divided among the subgroups as proposed below:

#### 017A "Stems and Petioles" subgroup:

- Cardoon
- Celery
- Celtuce
- Fennel, bulb
- Rhubarb

#### 017B "Young shoots" subgroup:

- Asparagus
- Bambooshoots

#### 017C "Others subgroup":

- Artichoke, globe
- Palm hearts

27. The new commodities proposed to include in the group of "Stalk and stem vegetables":

In the subgroup 017A "Stems and Petioles":

- Burdock, edible tops
- Giant butterbur
- Zuiki

In the subgroup 017B "Young shoots":

- Agave
- Ferns, edible
- Kale, sea
- Udo

In the subgroup 017C "Others":

- Prickly pear pads

28. The new commodities originate from the expanded US crop grouping system, except Ferns, edible. Japanese flowering fern (included in ferns, edible) is a commodity proposed in the limited revision project.

29. Witloof chicory (sprouts) is moved from this group to the Leafy vegetables, subgroup Leaves of root and tuber vegetables.

30. The commodity Fennel, bulb is transferred from the Bulb vegetables group to this group in the subgroup 17A stems and petioles.

31. Sea kale is moved from the Leafy vegetable group in this group in the subgroup Young shoots, because the young shoots (blanched) are consumed.

32. The Republic of Korea proposed to include Water celery in this group. Also it was proposed to include the flowering stalk of Garlic. This commodity belongs in the group of Bulb vegetables.

### **Recommendations**

33. The Chairs of the EWG propose to consider the proposals for "Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead cabbages, Leafy vegetables (including brassica leafy vegetables) and Stalk and Stem vegetables" at Step 4 in the light of the comments received and advance these proposals for adoption at Step 5.

34. The Chairs of the EWG propose to the Committee to re-establish the Electronic Working Group led by The Netherlands and the USA, working in English and open to all Members and observers, which should prepare proposals for commodity groups according to the progress made by the ICGCC.

### **Request for comments**

35. Codex Members and Observers wishing to submit comments on the commodity groups as presented in Appendices I to III are kindly invited to do so as indicated on the cover page.



Appendix I

Brassica (cole or cabbage) vegetables, Head cabbages, Flowerhead brassicas

Class A

Type 2                      Vegetables    Group 010                      Group Letter Code VB

Brassica (cole or cabbage) vegetables and flowerhead brassicas are foods derived from the leafy heads, stems and immature inflorescences of plants belonging to the genus Brassica of the family Cruciferae. Although Kohlrabi does not comply fully with the description above, for convenience and because of the similarity in residue behaviour the commodity is classified in this group. Kohlrabi is a tuber-like enlargement of the stem.

The edible part of the crop is partly protected from pesticides applied during the growing season by outer leaves, or skin (Kohlrabi).

The entire vegetable after discarding obviously decomposed or withered leaves may be consumed.

It is proposed to divide this group in 3 subgroups:

10A Flowerhead Brassicas

10B Head Brassicas

10C Stem Brassicas

Portion of the commodity to which the MRL applies (and which is analysed): Head cabbages and Kohlrabi: Whole commodity as marketed, after removal of obviously decomposed or withered leaves. Cauliflower and broccoli: flower heads (immature inflorescence only). Brussels sprouts: "buttons" only.

Group 010                      Brassica (cole or cabbage) vegetables, Head cabbages, Flowerhead brassicas

Code NO.                      Commodity

VB 0040                      Brassica (cole or cabbage) vegetables, Head cabbages, Flowerhead brassicas  
(includes all commodities in this group)

Group 10A                      Flowerhead Brassicas

Code NO.                      Commodity

VB 0042                      Flowerhead brassicas (includes Broccoli and Cauliflower)

VB 0400                      Broccoli

*Brassica oleracea* L. var. *italica* Plenck

-                      Broccoli, Chinese, See Leafy vegetables Group 13

-                      Broccoli, Sprouting, see Broccoli, VB 0400

VB 0404                      Cauliflower

*Brassica oleracea* L. var. *botrytis* L., several cultivars (white and green)

-                      Cauliflower, Green, see Cauliflower, VB 0404

-                      Kailan, see Broccoli, Chinese

-                      Romanesco broccoli, See Cauliflower, VB 0404

**Group 10B****Head Brassicas****Code NO.****Commodity**

VB 2036

**Head Brassicas**

(includes all commodities in this group)

VB 0041

**Cabbages, Head***Brassica oleracea* L. var. *capitata* L., several var. and cvs.

(includes Savoy cabbage and Chinese cabbage)

VB 0402

**Brussels sprouts***Brassica oleracea* L. var. *gemmifera* (DC.) Zenker

-

**Cabbage**, see Cabbages, Head, VB 0041

-

**Cabbage, Green**, see Cabbage, Savoy

-

**Cabbage, Red**, see Cabbages, Head, VB 0041*Brassica oleracea* L. *capitata* L., var. *rubra*

-

**Cabbage, Oxhead**, see Cabbages, Head, VB 0041*Brassica oleracea* L. *capitata* L., var. *alba*, *forma conica*

-

**Cabbage, Pointed**, see Cabbage, Oxhead

-

**Cabbage, White**, see Cabbages, Head, VB 0041*Brassica oleracea* L. *capitata* L., var. *alba*

VB 0403

**Cabbage, Savoy**, see also Cabbages, Head, VB 0041*Brassica oleracea* L. var. *sabauda* L.

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**Cabbage, Yellow**, see Cabbage, Savoy, VB 0403

-

**Celery cabbage**, see Chinese cabbage, (type Pe-tsai), VB 0467

VB 0467

**Chinese cabbage**, (type Pe-tsai)*Brassica rapa* L. *subsp. pekinensis* (Lour.) Haneltsyn: *B. pekinensis* (Lour.) Rupr.

-

**Chinese cabbage (napa)**, see Chinese cabbage, (type Pe-tsai), VB 0467

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**Kimchi cabbage**, see Chinese cabbage (type Pe-tsai), VB 0467*Brassica rapa* L. *subsp. pekinensis* (Lour.) Haneltsyn: *Brassica rapa* L. var. *glabra* Regel

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**Napa cabbage**, See Chinese cabbage (type Pe-tsai), VB 0467

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**Pak-tsai**, see Chinese cabbage, (type Pe-tsai), VB 0467

Group 10C Stem Brassicas

Code NO.

Commodity

VB 0405

Kohlrabi

*Brassica oleracea* L var. *gongylodes* L.



- **Buckhorn plantain**, See Plantain leaves, VL 0490  
*Plantago lanceolata* L.
- **Bush greens**, See Amaranth, VL 0460  
*Amaranthus cruentus* L.
- VL 2742 **Cat's Whiskers**  
*Cleome gynandra* L.
- VL 2743 **Cham-chwi**  
*Doellingeria scabra* (Thunb.) Nees  
syn: *Aster scaber* Thunb.
- VL 2744 **Cham-na-mul**  
*Pimpinella calycina* Maxim  
syn: *Pimpinella brachycarpa* (Kom.) Nakai;
- VL 2745 **Cham-ssuk**  
*Artemisia dubia* Wall. Ex DC.
- VL 0464 **Chard**  
*Beta vulgaris* L. subsp. *vulgaris* var. *vulgaris*; *Beta vulgaris* L. subsp. *vulgaris* var. *cicla*
- VL 0465 **Chervil**  
*Anthriscus cerefolium* (L.) Hoffmann
- VL 0469 **Chicory leaves** (green and red cultivars)  
*Cichorium intybus* L., var. *foliosum* Hegi
- **Chinese amaranth**, See Amaranth, VL 0460  
*Amaranthus tricolor* L.
- VL 2746 **Chipilin**  
*Crotalaria lingirostrata* Hook & Arn.
- VL 2747 **Chrysanthemum, Edible leaved**  
*Glebionis* spp.
- **Chrysanthemum, garland**, See Chrysanthemum, edible leaved, VL 2747  
*Glebionis coronaria* (L.) Cass. ex Spach;
- **Common plantain**, see Plantain leaves, VL 0490  
*Plantago major* L.

- **Corn chrysanthemum**, see Chrysanthemum, edible leaved, VL 2747  
*Glebionis segetum* (L.) Fourr
- VL 0470 **Corn salad**  
*Valerianella* spp.
- VL 0510 **Cos lettuce**  
*Lactuca sativa* L. var. *longifolia* Lam.
- VL 2748 **Cosmos**  
*Cosmos caudatus* Kunth
- **Crisphead lettuce**, see Lettuce, Head, VL 0482
- **Cutting lettuce**, see Lettuce, Leaf, VL 0483
- VL 0474 **Dandelion**  
*Taraxacum officinale* F.H. Wigg. agr.
- VL 2749 **Dang-gwi**  
*Angelica gigas* Nakai
- VL 0475 **Dock**  
*Rumex* spp.; [*Rumex patienta* L.]
- VL 2750 **Dol-nam-mul**  
*Sedum sarmentosum* Bunge
- VL 2751 **Ebolo**  
*Crassocephalum crepidioides* (Benth.) S. Moore
- VL 0476 **Endive**  
*Cichorium endivia* L.
- **Endive, broad or plain leaved**, see Endive, VL 0476  
*Cichorium endivia* L., var. *latifolium* Lamarck
- **Endive, curled**, see Endive, VL 0476  
*Cichorium endivia* L., var. *crispum* Lamarck
- VL 0514 **Fame flower**  
*Talinum fruticosum* L. Juss.
- **Fennel**, see Group 027 Herbs
- **Fennel, Bulb**, see Group Stalk and stem vegetables

- VL 0515           **Feather cockcomb**  
                           *Glinus oppositifolius (L.) Aug. DC.*
- VL 2752           **Glasswort, common**  
                           *Salicornia L.*
- VL 2753           **Gom-chwi**  
                           *Ligularia fischeri Turcz.*
- **Good King Henry, see Goosefoot, VL 0477**  
                           *Chenopodium bonus-henricus L.*
- VL 0477           **Goosefoot**  
                           *Chenopodium spp.*
- **Huauzontle, see Goosefoot, VL 0477**  
                           *Chenopodium berlandieri Moq.*
- VL 2754           **Iceplant**  
                           *Mesembryanthemum crystallinum L.*
- **Italian corn salad, see corn salad, VL 0470**  
                           *Valerianella eriocarpa desv.;*
- **Jew mallow, see Jute, VL 2754**  
                           *Corchorus olitorius L.*
- VL 2755           **Jute**  
                           *Corchorus spp.*
- **Lambs lettuce, see Corn salad, VL 0470**  
                           *Valerianella locusta L.;*
- VL 2756           **Lettuce, bitter**  
                           *Launea cornuta (Hochst. ex Oliv. & Hiern) C. Jeffrey*
- VL 0482           **Lettuce, Head**  
                           *Lactuca sativa L., var. capitata*
- VL 0483           **Lettuce, Leaf**  
                           *Lactuca sativa L., var. crispa L.;*
- **Lettuce, Red, see Lettuce, Head, VL 0482**  
                           Red cultivar of *Lactuca sativa, var. capitata*

- VL 0486            **New Zealand spinach**  
                       *Tetragonia tetragonioides* (Pallas) O. Kuntze;  
                       syn: *T. expansa* Murr.
- VL 0488            **Orach**  
                       *Atriplex hortensis* L.
- VL 0490            **Plantain leaves**  
                       *Plantago major* L.
- VL 0492            **Purslane**  
                       *Portulaca oleracea* L., ssp. *sativa* (Haw) Celak.
- VL 0493            **Purslane, Winter**  
                       *Claytonia perfoliata* Donn ex Willd.;
- **Red-leaved chicory**, see Chicory leaves
- **Silver beet**, see Chard, VL 0464
- **Slender amaranth**, see Amaranth  
                       *Amaranthus viridis* L.
- VL 0501            **Sowthistle**  
                       *Sonchus oleraceus* L.
- VL 0502            **Spinach**  
                       *Spinacia oleracea* L.
- **Spinach beet**, see Chard, VL 0464
- VL 0503            **Spinach, Indian**  
                       *Basella alba* L.;
- **Spiny amaranth**, see Amaranth  
                       *Amaranthus spinosus* L.
- **Spleen amaranth**, see Amaranth  
                       *Amaranthus dubius* C. Mart. ex. Thell.
- **Sugar loaf**, see Chicory leaves, VL 0469
- **Swiss chard**, see Chard, VL 0464
- VL 2757            **Tanier spinach**  
                       *Xanthosoma brasiliense* (Desf.) Engl.



- **Tricolor chrysanthemum**, see Chrysanthemum, Edible leaved, VL 2747  
*Glebionis carinata* (Schousb.) Tzvelev
- **Vine spinach**, see Spinach, Indian, VL 0503
- VL 2758 **Violet, Chinese**  
*Asystasia gangetica* (L.) T. Anderson
- **Warrigal greens**, see New Zealand spinach, VL 0486
- Group 013B Brassica leafy vegetables**
- Code No.**            **Commodity**
- VL 0054            **Brassica leafy vegetables**  
*Brassica* spp.  
(Includes all commodities in this subgroup)
- **Amsoi**, see Indian Mustard
- **Arrugula**, see Rucola, VL 0496
- **Big-stem mustard**, See Mustard greens, VL 0485  
*Brassica juncea* (L.) Czern subsp. *tsatsai* (T.L. Mao) Gladis
- **Borecole**, see Kale, curly
- VL 0401            **Broccoli, Chinese**  
*Brassica oleracea* var *alboglabra* (L.H. Bailey) Musil
- VL 2770            **Broccoli raab**  
*Brassica ruvo* L.H. Bailey
- VL 2771            **Cabbage, Abyssinian**  
*Brassica carinata* A. Braun
- VL 2772            **Cabbage, Seakale**  
*Brassica oleracea* L. var. *costada* DC.
- **Celery mustard**, see Pak-choi
- VL 0466            **Chinese cabbage (type Pak-choi)**  
*Brassica rapa* subsp. *chinensis* (L.) Hanelt
- VL 2773            **Chinese flat cabbage**  
*Brassica rapa* subsp. *narinosa* (L.H. Bailey) Hanelt
- **Choisum**, See Flowering white cabbage, VL 0468
- **Collards**, see Kale, VL 0480

- VL 0472            **Cress, Garden**  
                       *Lepidium sativum* L.; *L. virginicum* L.
- VL 2774            **Cress, Upland**  
                       *Barbarea vulgaris* W.T. Aiton; *B. Verna* (Mill.) Asch.
- **Curly Kale**, see Kale, curly
- **Field mustard greens**, See Rape greens, VL 0495  
                       *Brassica napus* L. subsp. *trilocularis* (roxb.) Hanelt; *Brassica napus* L. subsp. *dichotoma* (Roxb.) Hanelt; *Brassica napus* L. subsp. *oleifera* Metzg.
- **Garden cress**, see Cress, Garden, VL 0472
- VL 0468            **Flowering white cabbage**  
                       *Brassica rapa* L. subsp. *chinensis* (L.) Hanelt var. *parachinensis*
- VL 2775            **Hanover salad**  
                       *Brassica napus* var. *pabularia* (DC.) Rchb
- **Indian mustard**, See Mustard greens, VL 0485  
                       *Brassica juncea* (L.) Czern.
- **Kabuna**, See Mizuna, VL 0481  
                       *Brassica rapa* L. subsp. *nipposinica* (L.H. Bailey) Hanelt var. *piriviridis* L.H. Bailey
- VL 0480            **Kale**  
                       (including among others: Collards, Curly kale, Scotch kale, Thousand-headed kale, Branching bush kale, Jersey kale; not including Marrow-stem kale, no. AV 1052, see Group 052: Miscellaneous fodder and forage crops, page 108)  
                       *Brassica oleracea* L., var. *sabellica* L.
- **Kale, branching bush**, See Kale, VL 0480  
                       *Brassica oleracea* L., var. *ramosa* DC. L
- **Kale, curly**, see Kale, VL 0480  
                       *Brassica oleracea* L., convar. *acephala* (D. C.) Alef., var. *sabellica* L.
- **Kale, Jersey**, See Kale, VL 0480  
                       *Brassica oleracea* L., var. *palmifolia* DC.
- **Komatsuma**, See Mizuna, VL 0481  
                       *Brassica rapa* L. subsp. *nipposinica* (L.H. Bailey) Hanelt var. *piriviridis* L.H. Bailey
- **Land cress**, See Cress, Upland, VL 2774  
                       *B. Verna* (Mill.) Asch.

- **Leaf mustard**, See Mustard greens, VL 0485  
*Brassica juncea* (L.) Czern subsp. *integrifolia* (H. West) Thell.
- VL 2776 **Maca**  
*Lepidium meyenii* Walp.
- VL 0481 **Mizuna**  
*Brassica rapa* L. subsp. *nipposinica* (L.H. Bailey) Hanelt; *Brassica rapa* L. subsp. *nipposinica* (L.H. Bailey) Hanelt var. *piriviridis* L.H. Bailey
- VL 0485 **Mustard greens**  
*Brassica juncea* (L.) Czern
- **Mustard, Indian**, see Indian Mustard
- **Mustard spinach**, see Komatsuma
- VL 2777 **Mustard, tuberous rooted, Chinese**  
*Brassica juncea* (L.) Czern. Subsp. *napiformis* (Pailleux & Bois)
- **Namenia**, see Turnip greens, VL 0506
- **Oil radish greens**, See Radish leaves, VL 2778  
*Raphanus sativus* L var. *oleiformis* Pers.
- **Pak-choi or Paksoi**, See Chinese cabbage (type Pak-choi), VL 0466
- **Pak-tsai**, see Brassica (cole or cabbage) vegetables, Head cabbages, Flowerhead brassicas, Group 010
- **Pak-tsoi or Pak-soi**, see Pak-choi or Paksoi
- **Peppergrass**, See Cress, garden, VL 0472  
*Lepidium virginicum* L
- VL 2778 **Purple-stem mustard**  
*Brassica rapa* subsp. *chinensis* (L.) Hanelt var. *purpuraria* (L.H. Bailey) Hanelt
- VL 0494 **Radish leaves** (including Radish tops)  
*Raphanus sativus* L., several varieties
- VL 0495 **Rape greens**  
*Brassica napus* L.
- **Rat-tail radish greens**, See Radish leaves, VL 0494  
*Raphanus sativus* L var. *mougrii* H.J.W. Helm
- **Rocket salad**, see Rucola, VL 0496
- **Roquette**, see Rucola, VL 0496

VL 0496	<b>Rucola</b> <i>Eruca sativa</i> Mill.
VL 0497	<b>Rutabaga greens</b> <i>Brassica napus</i> L., var. <i>napobrassica</i> (L.) Rchb.
VL 2779	<b>Shepherd's purse</b> <i>Capsella bursa-pastoris</i> (L.) medik
-	<b>Tendergreen</b> , see Turnip greens, VL 0506
-	<b>Tsai shim</b> , see Choisum
-	<b>Tsoi sum</b> , see Choisum
VL 0506	<b>Turnip greens</b> <i>Brassica rapa</i> L. subsp. <i>rapa</i> ;
VL 0473	<b>Watercress</b> <i>Nasturtium officinale</i> W.T Aiton
VL 2780	<b>Wild rocket</b> <i>Diplotaxis tenuifolia</i> (L.) Rchb

**Group 013C**      **Leaves of root and tuber vegetables**

<u>Code No.</u>	<u>Commodity</u>
VL 2052	<b>Leaves of root and tuber vegetables</b> (Includes all commodities in this subgroup)
VL 2790	<b>Alexanders leaves</b> <i>Smyrnium olusatrum</i> L.
VL 2791	<b>Bell flower, Chinese leaves</b> <i>Platycodon grandiflorus</i> (Jacq.) A. DC.
-	<b>Blue ape leaves</b> , See Tannia leaves, VL 0504 <i>Xanthosoma violaceum</i> Schott
VL 0463	<b>Cassava leaves</b> <i>Manihot esculenta</i> Crantz
VL 2792	<b>Chayote leaves</b> <i>Sechium edule</i> (Jacq.) Sw.
-	<b>Chinese yam</b> , See Yam leaves, VL 2796 <i>Dioscorea polystachya</i> Turcz.

- **Greater yam**, See Yam leaves, VL 2796  
*Dioscorea alata* L.
- **Lesser yam**, See Yam leaves, VL 2796  
*Dioscorea esculenta* (Lour.) Burkill
- **Mapuey**, See Yam leaves, VL 2796  
*Dioscorea trifida* L.f.
- VL 2793 **Rampion leaves**  
*Campanula rapunculus* L.
- VL 0498 **Salsify leaves**  
*Tragopogon porrifolium* L.; *Scorzonera hispanica* L.
- VL 0508 **Sweet potato, leaves**  
*Ipomoea batatas* (L.) Lam.
- VL 0504 **Tannia leaves**  
*Xanthosoma sagittifolium* (L.) Schott;  
syn: *X. edule* (Mey) Schott; *X. xanthorrhizon* (Jacq.);  
C. Koch; *Arum sagittaefolium* L.
- VL 0505 **Taro leaves**  
*Colocasia esculenta* (L.) Schott
- VL 2794 **Ullucu leaves**  
*Ullucus tuberosus* Caldas
- VL 2795 **Velvet plant leaves**  
*Gynura bicolor* (Roxb. ex Willd.) DC.
- **White yam**, See Yam leaves, VL 2796  
*Dioscorea rotundata* Poir.
- VL 0469 **Witloof chicory (sprouts)**  
*Cichorium intybus* L., var. *foliosum* Hegi; green, red and white cultivars
- VL 2796 **Yam leaves**  
*Dioscorea* spp.
- **Yellow yam**, See Yam leaves, VL 2796  
*Dioscorea cayenensis* Lam.

**Group 013D** Leaves of trees, shrubs and vines

<u>Code No.</u>	<u>Commodity</u>
VL 2053	Leaves of trees, shrubs and vines (Includes all commodities in this subgroup)
VL 0269	Grape leaves <i>Vitis vinifera</i> L.
VL 0517	Melientha <i>Melientha suavis</i> Pierre
VL 0337	Papaya leaves <i>Carica papaya</i> L.

**Group 013E** Leafy aquatic vegetables

<u>Code No.</u>	<u>Commodity</u>
VL 2054	Leafy aquatic vegetables (Includes all commodities in this subgroup)
VL 0507	Kangkung <i>Ipomoea aquatica</i> Forssk.;
-	Sun-chaе, see Water shield, VL 2820
-	Water convolvulus, see Kangkung, VL 0507
VL 0518	Water mimosa <i>Neptunia Oleracea</i> Lour.
VL 2820	Water shield <i>Brasenia schreberi</i> J.F. Gmel.
-	Water spinach, see Kangkung, VL 0507



VS 0625	<b>Celtuče</b>  <i>Lactuca sativa</i> L., var. <i>angustina</i> Irish;  syn: <i>L. sativa</i> L., var. <i>asparagina</i> Bailey
VS 0380	<b>Fennel, Bulb</b>  <i>Foeniculum vulgare</i> Mill. subsp. <i>vulgare</i> var. <i>azoricum</i> (Mill.) Thell-
-	<b>Fennel, Florance</b> , see Fennel, bulb, VS 0380
VS 3021	<b>Giant butterbur</b>  <i>Petasites japonicus</i> (Siebold & Zucc.) Maxim
-	<b>Fuki</b> , See Giant butterbur, VS 3021
VS 0627	<b>Rhubarb</b>  <i>Rheum x hybridum</i> Murray
VS 3022	<b>Zuiki</b>  <i>Colocasia gigantea</i> (Blume) Hook. f.
<b>Group 017B</b>	<b>Stalk and stem vegetables - Young shoots</b>
<u>Code No.</u>	<u>Commodity</u>
VS 2081	<b>Young shoots</b>  (Includes all commodities in this subgroup)
VS 3025	<b>Agave</b>  <i>Agave</i> spp.
VS 0621	<b>Asparagus</b>  <i>Asparagus officinalis</i> L.
VS 0622	<b>Bamboo shoots</b>  <i>Arundinaria</i> spp.; <i>Bambusa</i> spp. including <i>B. blumeana</i> ; <i>B. multiplex</i> ; <i>B. oldhamii</i> ; <i>B. textilis</i> ; <i>Chimonobambusa</i> spp.; <i>Dendrocalamus</i> spp., including <i>D. asper</i> ; <i>D. beecheyana</i> ; <i>D. brandisii</i> ; <i>D. giganteus</i> ; <i>D. laetiflorus</i> and <i>D. strictus</i> ; <i>Gigantochloa</i> spp. including <i>G. albociliata</i> ; <i>G. atter</i> ; <i>G. levis</i> ; <i>G. robusta</i> ; <i>Nastus elatus</i> ; <i>Phyllostachys</i> spp.; <i>Thyrsostachys siamensis</i> ; <i>Thyrsostachys oliverii</i> (Poaceae (alt. Gramineae))
VS 3026	<b>Ferns, edible</b>  Including: Black lady fern, <i>Deparia japonica</i> (Thunb.) M. Kato; Bracken fern, <i>Pteridium aquilinum</i> (L.) Kuhn; Broad buckler fern, <i>Dryopteris dilatata</i> (Hoffm.) A. Gray; Cinnamon fern, <i>Osmundastrum cinnamomeum</i> (L.) C.Presl; Lady fern, <i>Athyrium filix-femina</i> (L.) Roth ex Mert.; Leather fern, <i>Acrostichum aureum</i> L.; Mother fern, <i>Diplazium proliferum</i> (Lam.) Thouars; Ostrich fern, <i>Matteuccia struthiopteris</i> (L.) Tod.; Vegetable fern, <i>Diplazium esculentum</i> (Retz.) Sw.; Zenmai fern, <i>Osmunda japonica</i> Thunb.



VS 0499 **Kale, sea**

*Crambe maritima* L.

VS 3027 **Udo**

*Aralia cordata* Thunb.

**Group 017C Stalk and stem vegetables - Others**

Code No. Commodity

VS 0620 **Artichoke, globe**

*Cynara scolymus* L.

VS 0626 **Palm hearts**

various species including: Peach Palm, *Bactris gasipaes* Kunth; Palmyra palm, *Borassus flabellifera* L.; African fan palm, *Borassus aethiopum* Mart.; Coconut, *Cocos nucifera* L.; Cabbage palm, *Euterpe oleracea* Mart.; Wine palm, *Raphia* spp.; Royal palm, *Roystonea oleracea* (Jacq.) O.F. Cook; Salak palm, *Salacca zalacca* (Gaertn.) Voss; Saw palmetto, *Serenoa repens* (W. Bartram) Small; Cabbage palmetto, *Sabal palmetto* (Walter) Schult. & Schult. f., (Arecaceae (alt. Palmae))

VS 3030 **Prickly pear pads**

*Opuntia ficus-indica* (L.) Mill.

VS 3031 **Water-celery**

*Oenanthe javanica* (Blume) de Candolle