

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of
the United Nations



World Health
Organization

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Agenda Item 7(c)

CX/PR 15/47/8

March 2015

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON PESTICIDE RESIDUES

47th Session

Beijing, P.R. China, 13-18 April, 2015

DRAFT REVISION OF THE CLASSIFICATION OF FOODS AND ANIMAL FEEDS AT STEP 4: OTHER SELECTED COMMODITY GROUPS – GROUP 020 CEREAL GRAINS

(Prepared by the Electronic Working Group led by the Netherlands and the United States of America)

Codex Members and Observers wishing to submit comments at **Step 3** on this document (see **Appendix I including Option A / Appendix II and Option B / Appendix III**), including possible implications for their economic interests, should do so in conformity with the *Uniform Procedure for the Elaboration of Codex Standards and Related Texts* (Codex Alimentarius Commission Procedural Manual) before **31 March 2015**. Comments should be directed:

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BACKGROUND

1. Background on the discussion of the revision of the Classification of Foods and Animal Feeds (CAC/MISC 4-1993) can be found in the reports of the 36th – 46th sessions of the Committee on Pesticide Residues (CCPR) including relevant sessions of the Codex Alimentarius (CAC) held between 2004 – 2014. Reports of Codex Committee meetings are available for downloading at <http://www.codexalimentarius.org>.

2. The 46th Session of the Committee on Pesticide Residues (May 2014) agreed to re-establish¹ the Electronic Working Group on the revision of the Classification (EWG) led by the Netherlands and the United States of America to prepare new draft proposals for selected vegetable commodity groups. The list of participants is contained in Appendix IV.

3. The EWG identified one commodity group Cereal Grains (Grasses Type) for consideration by the 47th Session of the Committee as described below. Two proposals were considered by the EWG. Proposal A is based on work of the International Crop Grouping Consulting Committee and includes three subgroups. Proposal B proposes six subgroups.

4. A number of comments were provided by the EWG in regards to the two proposals. In summary, proposal A was supported by Canada and the United States of America. However, Canada proposed that the representative commodity for subgroup 20B include Wheat and/or Barley. The United States of America agreed that further discussions are needed to determine if wheat and barley data are needed for the subgroup. The EU, Japan and the Netherlands supported proposal B. New Zealand commented on proposal A with the suggestion that a separate subgroup be established for sweet corn that includes corn-on-the-cob and kernels as they are harvested at an earlier immature stage. New Zealand also proposed that both polished rice and husked (brown) rice commodities be included. Note that Rice, husked (CM 0649) and Rice, polished (CM 1205) are included in Group 058 Milled cereal products (early milling stages). Thailand supported proposal B because of the separation of maize and sweet corn, but would consider proposal A with the separation of maize and sweet corn. Thailand also proposed the addition of baby corn.

¹ REP14/PR, paras 147, 148, 150

5. Japan also proposed that the *Portion of the commodity to which the MRL applies (and which is analysed)* for Group 020 Cereal Grains should be amended based on if husks readily separate from the kernels. The proposal is indicated below in brackets. Note that this proposal could be expanded to include pseudocereals (seeds).

6. The current group 020 Cereal Grains is shown in Appendix I. Proposal A is shown in Appendix II² and Proposal B in Appendix III². New commodities are shaded in Appendix II and III. Additional commodities (corn-on-the cob, kernels, baby corn) proposed by the EWG are shaded and shown in brackets in Appendix III.

Proposals for Group 020 Cereal Grains:

The first option (Proposal A, Appendix II), which is based on the work of the International Crop Grouping Committee includes 3 subgroups as follows:

- 20A Small grains
- 20B Corn, grain sorghum and millet
- 20C Rice

This option combines small grains and pseudocereals into one subgroups because of the difficulty of separating small grains into different subgroups (wheat and barley). It is also difficult to identify an appropriate representative commodity for pseudocereals because of country and regional differences and lack of production data. Option A is the International Crop Grouping Consulting Committee (ICGCC) proposal for NAFTA crop groups.

The second option (Proposal B, Appendix III) includes 6 subgroups as follows:

- 20A Wheat
- 20B Barley
- 20C Rice
- 20D Maize, millet, sorghum
- 20E Pseudocereals grains
- 20F Sweet corn

This option separates similar crops, wheat, barley and pseudocereals into separate subgroups and also creates another subgroup with only one commodity (sweet corn). Sweet corn was originally listed in the group of Fruiting vegetables, other than Cucurbits and is now proposed for inclusion in Cereal grains. A separate subgroup is proposed for Sweet corn in this proposal.

New commodities

New commodities proposed to include in the Cereal grain group are listed below.

- Amaranth, Grain [pseudocereal]
- Amaranth, Purple [pseudocereal]
- Buckwheat, Tartary [pseudocereal]
- Canarygrass, Annual [cereal]
- Chia [pseudocereal]
- Cram-cram [cereal]
- Fonio, black [cereal]
- Huauzontle [cereal]
- Inca wheat [pseudocereal]
- Princess-feather [pseudocereal]
- Psyllium [pseudocereal]
- Psyllium, blond [pseudocereal]
- Millet, Japanese [cereal]
- Millet, Proso [cereal]
- Rice, African [rice]

² Work on Table 3 is related to ongoing work on examples of selection of representative commodities for inclusion in the *Principles and guidance for the selection of representative of commodities for the extrapolation of maximum residue limits for pesticides to commodity groups*. In this regard, see ongoing work on selection of representative commodities Table 2 - vegetable commodity groups and Table 3 - grasses in CX/PR 15/47/9 (Agenda Item 7(d)).

The new commodities originate from the proposed expanded NAFTA crop grouping system by the International Crop Grouping Consulting Committee (ICGCC), the European Union classification or the FAO Definition and Classification of Commodities. Note that Japanese millet was not included in the ICGCC proposal since its use is for forage, silage and hay, rather than as a grain. Note that the ICGCC proposal also included Wild rice, Eastern, *Zizania aquatica* L

Scientific names

The scientific names of all commodities of the Pulses group are verified using GRIN Taxonomy of plants (<http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl>).

Portion to which the MRL applies

In Section 4.1 of CAC/GL 41-1993 *Analysis of Pesticides - Portion of Commodities to which MRLs apply and which is analysed* says:

Whole commodity. Fresh corn and sweet corn: kernels plus cob without husk

The Codex Classification of Foods and Animal Feeds (1993) says:

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity. Fresh corn and sweet corn: kernels plus cob without husk. (For the latter see Group 012 Fruiting vegetables, other than Cucurbits).**

As sweet corn is moved to this commodity group the reference to Group 012 could be deleted.

Proposal from Japan to amend portion to which MRL applied to:

[“Whole commodity in trade. Wheat, rye, triticale, maize, sorghum, pearl millet and other similar cereals with husks readily separable from kernels during threshing: kernels. Barley, oats, rice and other similar cereals with husks that remain attached to kernels even after threshing: kernels with husks (**Note:** For rice, only about 10% of traded grains is with husk). Fresh corn and sweet corn: kernels plus cob without husk.]

Code numbering

The 4000 numbers are deleted.

New numbers will be inserted.

RECOMMENDATIONS

7. The Committee is invited to consider the proposals for Cereal Grains in light of the comments submitted. Codex members and observers are invited to indicate their preference for Options A or B including new commodities for addition according to the option selected. The rationale for selecting either option should be provided based on the parameters that constitute the basis for grouping commodities in the Classification of Food and Feed namely: (i) commodity's similar potential for pesticide residues; (ii) similar commodity morphology; (iii) similar production practices, growth habits, etc.; (iv) edible portion; (v) similar GAP for pesticide uses; (vi) similar residue behaviour; and (vii) flexibility for setting (sub) group tolerances.

8. The Committee is invited to advance this Group for adoption at Step 5 by the 38th Session of the Commission.

9. The Committee is also invited to re-establish the Electronic Working Group on the revision of the Classification of Food and Feed, led by the Netherlands and the United States of America, to prepare proposals for other commodity groups according to the progress made by the International Crop Grouping Consulting Committee (ICGCC) in accordance with the approach agreed by the CCPR for the revision of the Classification.

APPENDIX I**TYPE 3 GRASSES**

Grasses are herbaceous annual and perennial monocotyledonous plants of different kinds, cultivated extensively for their ears (heads) of starchy seeds used directly for the production of food. Grasses used for animal feed are classified under Class C: Primary Animal feed commodities, Group 051.

The plants are fully exposed to pesticides applied during the growing season.

Cereal grainsClass A**Type 3 Grasses Group 020 Group Letter Code GC**

Group 020. Cereal grains are derived from the ears (heads) of starchy seeds produced by a variety of plants, primarily of the grass family (Gramineae).

Buckwheat, a dicotyledonous crop belonging to the botanical family Polygonaceae and two *Chenopodium* species, belonging to the botanical family Chenopodiaceae are included in this group, because of similarities in size and type of the seed, residue pattern and the use of the commodity.

The edible seeds are protected to varying degrees from pesticides applied during the growing season by husks. Husks are removed before processing and/or consumption.

Cereal grains are often exposed to post-harvest treatment with pesticides.

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity. Fresh corn and sweet corn: kernels plus cob without husk. (For the latter see Group 012 Fruiting vegetables, other than Cucurbits).**

For Fodders and straw of cereals, see Class C, Type 11 Group 051

Group 020 Cereal grains

<u>Code No.</u>	<u>Commodity</u>
GC 0080	Cereal grains Seeds of <i>gramineous</i> plants as listed below, and Buckwheat and <i>Chenopodium</i> spp. as listed
GC 0081	Cereal grains , except Buckwheat, Cañihua and Quinoa
GC 4597	Acha , see Hungry Rice
GC 4599	Adlay , see Job's Tears
GC 4601	African millet , see Millet, Finger
GC 0640	Barley <i>Hordeum vulgare</i> L.; syn: <i>H. sativum</i> Pers.
GC 4603	Brown-corn millet , see Millet, Common
GC 0641	Buckwheat <i>Fagopyrum esculentum</i> Moench; syn: <i>F. sagittatum</i> Gilib.
GC 4607	Bulrush millet , see Millet, Bulrush
GC 0642	Cañihua <i>Chenopodium pallidicaule</i> Aellen
GC 4609	Cat-tail millet , see Millet, Bulrush
GC 4611	Chicken corn , see Sorghum <i>Sorghum drummondii</i> (Steud.) Millsp. & Chase
GC 4613	Corn , see Maize

- GC 4615 **Corn-on-the-cob** (Codex Stand. 133-1981), see Fruiting vegetables (other than Cucurbits), Group 012
- GC 4617 **Corn, whole kernel** (Codex Stand. 133-1981), see Fruiting vegetables (other than Cucurbits), Group 012: Sweet corn (kernels)
- GC 4619 **Dari seed**, see Sorghum
- GC 4621 **Durra**, see Sorghum
ssp. *Sorghum durra* (Forsk.) Stapf.
- GC 4623 **Durum wheat**, see Wheat
ssp. *Triticum durum* Desf.
- GC 4625 **Emmer**, see Wheat
ssp. *Triticum dicoccum* Schubl.
- GC 4627 **Feterita**, see Sorghum
ssp. *Sorghum caudatum* Stapf.
- GC 4629 **Finger millet**, see Millet, Finger
- GC 4631 **Fonio**, see Hungry Rice
- GC 4633 **Foxtail millet**, see Millet, Foxtail
- GC 4635 **Fundi**, see Hungry Rice
- GC 4637 **Guinea corn**, see Sorghum
spp. *Sorghum guineense* Stapf.
- GC 4639 **Hog millet**, see Millet, Common
- GC 0643 **Hungry rice**
Digitaria exilis Stapf.; *D. iburua* Stapf.
- GC 0644 **Job's tears**
Coix lacryma-jobi L.
- GC 4641 **Kaffir corn**, see Sorghum
ssp. *Sorghum caffrorum* Beauv.
- GC 4643 **Kaoliang**, see Sorghum
ssp. *Sorghum nervosum* Bess. ex Schult.
- GC 0645 **Maize**
Zea mays L., several cultivars, not including Popcorn and Sweetcorn
- GC 0646 **Millet**
Including Barnyard Millet, Bulrush Millet, Common Millet, Finger Millet, Foxtail Millet, Little Millet; see for scientific names, specific commodities listed as Millet, followed by a specific denomination
- GC 4645 **Millet, Barnyard**, see Millet
Echinochloa crus-galli (L.) Beauv.;
syn: *Panicum crus-galli* L.;
E. frumentacea (Roxb.) Link;
syn: *Panicum frumentaceum* Roxb.
- GC 4647 **Millet, Bulrush**, see Millet
Pennisetum typhoides (Burm. f.) Stapf. & Hubbard;
syn: *P. glaucum* (L.) R. Br.; *P. americanum* (L.) K. Schum.; *P. spicatum* (L.) Koern.

- GC 4649 **Millet, Common**, see Millet
Panicum miliaceum L.
- GC 4651 **Millet, Finger**, see Millet
Eleusine coracana (L.) Gaertn.
- GC 4653 **Millet, Foxtail**, see Millet
Setaria italica (L.) Beauv.;
Syn: *Panicum italicum* L.; *Chaetochloa italica* (L.) Scribn.
- GC 4655 **Millet, Little**, see Millet
Panicum sumatrense Roth ex Roem & Schult.
- GC 4657 **Milo**, see Sorghum
ssp. *Sorghum subglabrescens* Schweinf. & Aschers
- GC 0647 **Oats**
Avena fatua L.; *A. abyssinica* Hochst.
- GC 4659 **Oat, Red**, see Oats
Avena byzantina Koch
- GC 4661 **Pearl millet**, see Millet, Bulrush
- GC 0656 **Popcorn**
Zea mays L., var. *everta* Sturt.;
syn: *Zea mays* L., var. *praecox*
- GC 4665 **Proso millet**, see Millet, Common
- GC 0648 **Quinoa**
Chenopodium quinoa Willd.
- GC 0649 **Rice**
Oryza sativa L.; several ssp. and cultivars
- GC 4667 **Russian millet**, see Millet, Common
- GC 0650 **Rye**
Secale cereale L.
- GC 4669 **Shallu**, see Sorghum
ssp. *Sorghum roxburghii* Stapf.
- GC 4671 **Sorgo**, see Sorghum
- GC 0651 **Sorghum**
Sorghum bicolor (L.) Moench; several *Sorghum* ssp. and cultivars
- GC 4673 **Spelt**, see Wheat
Triticum spelta L.
- GC 4675 **Spiked millet**, see Millet, Bulrush
- GC 0447 **Sweet corn**, see Group 012 Fruiting vegetables (other than Cucurbits)
- GC 0652 **Teff or Tef**
Eragrostis tef (Zucc.) Trotter;
syn: *E. abyssinica* (Jacq.) Link

- GC 0657 **Teosinte**
 Zea mays ssp. *mexicana* (Schrader) Iltis;
 syn: *Zea mexicana* (Schrader) Kunze; *Euchlaena mexicana* Schrader.
- GC 0653 **Triticale**
 Hybrid of Wheat and Rye
- GC 0654 **Wheat**
 Cultivars of *Triticum aestivum* L.;
 syn: *T. sativum* Lam.; *T. vulgare* Vill.; *Triticum* spp., as listed
- GC 0655 **Wild rice**
 Zizania aquatica L.

APPENDIX II**Table 3. Examples of the Selection of Representative Commodities – Grasses**

Codex Group / Subgroup	Examples of Representative Commodities	Extrapolation to the following commodities
Proposal A (International Crop Grouping Consulting Committee)		
Group 020 Cereal Grains	Wheat, [and/or Barley ¹]; Rice, Fresh Sweet Corn and Dried Field Corn and Sorghum or Millet	<u>Cereal Grains</u> : Amaranth, Grain; Amaranth, Purple; Barley; Buckwheat; Buckwheat, Tartary; Canarygrass, Annual; Canihua; Chia; Corn, including field corn, sweet corn and popcorn; Cram-cram; Fonio, Black; Fonio, White; Huauzontle; Hungry rice; Inca Wheat; Job's tears; Maize; Millet; Millet, Barnyard; Millet, Bulrush; Millet, Finger; Millet, Foxtail; [Millet, Japanese]; Millet, Little; Millet, Proso; Oats; Princess-feather; Psyllium; Psyllium, Blond; Quinoa; Rice; Rice, African; Rice, Wild; Rye; Sorghum; Teff; Teosinte; Triticale; Wheat
Group 20A Small Grains	Wheat [and/or Barley ¹]	<u>Small Grains</u> : Amaranth, Grain; Amaranth, Purple; Barley; Buckwheat; Buckwheat, Tartary; Canarygrass, Annual; Canihua; Chia; Cram-cram; Fonio, Black; Fonio, White; Huauzontle; Hungry rice; Inca Wheat; Job's tears; Oats; Princess-feather; Psyllium; Psyllium, Blond; Quinoa; Rye; Teff; Triticale; Wheat
Group 20B Corn, Grain Sorghum and Millet	Sweet Corn and Field Corn, Sorghum or Millet	<u>Corn, Grain Sorghum and Millet</u> : Corn, including field corn, sweet corn and popcorn, Millet; Millet, Barnyard; Millet, Bulrush; Millet, Finger; Millet, Foxtail; [Millet, Japanese]; Millet, Little; Millet, Proso; Sorghum; Teosinte
Group 20C Rice	Rice	<u>Rice</u> : Rice; Rice, African; Rice, Wild

¹Barley proposed by Canada as "and/or", (but with reduced total number of wheat and barley trials).

Proposed new commodities are shaded.

Note that Japanese millet was not included in the ICGCC proposal since its use is for forage, silage and hay, rather than as a grain.

Note that the ICGCC proposal also included Wild rice, Eastern, *Zizania aquatica* L.

APPENDIX III**Table 3. Examples of the Selection of Representative Commodities – Grasses**

Codex Group / Subgroup	Examples of Representative Commodities	Extrapolation to the following commodities
Proposal B		
Group 020 Cereal Grains	Wheat, Barley, Rice, Maize, Sorghum or Millet, Buckwheat and Sweet Corn	Cereal Grains: Amaranth, Grain; Amaranth, Purple; Buckwheat; Buckwheat, Tartary; Canarygrass, Annual; Canihua; Chia; Corn, Sweet; Cram-cram; Fonio, Black; Fonio, White; Huauzontle; Hungry rice; Inca Wheat; Job's tears; Maize; Millet; Millet, Barnyard; Millet, Bulrush; Millet, Finger; Millet, Foxtail; [Millet, Japanese]; Millet, Little; Millet, Proso; Princess-feather; Psyllium; Psyllium, Blond; Oats; Popcorn; Quinoa; Rice; Rice, African; Rice, Wild; Rye; Sorghum; Sweet Corn; Teff; Teosinte; Triticale; Wheat
Subgroup 20A, Wheat	Wheat	Wheat: Canarygrass, Annual?; Cram-cram?; Fonio, black?; Fonio, white?; Huauzontle?; Inca wheat?; Job's tears?; Rye; Teff?; Triticale?; Wheat
Subgroup 20B, Barley	Barley	Barley: Barley; Canarygrass, Annual?; Cram-cram?; Fonio, black?; Fonio, white?; Huauzontle?; Inca wheat?; Job's tears?; Oats; Teff?; Triticale?
Subgroup 20C, Rice	Rice	Rice: Rice, Rice, African; Rice, Wild
Subgroup 20D, Maize, Millet, Sorghum	Maize and sorghum or millet	Maize, millet and sorghum: Maize; Millet; Millet, Barnyard; Millet, Bulrush; Millet, Finger; Millet, Foxtail; [Millet, Japanese]; Millet, Little; Millet, Proso; Popcorn, Sorghum, Teosinte
Subgroup 20E, Pseudocereals	Buckwheat ?	Buckwheat ? : Amaranth, Grain; Amaranth, Purple; Buckwheat; Buckwheat, Tartary; Canihua, Chia; Inca Wheat; Princess-feather; Psyllium; Psyllium, Blond; Quinoa
Subgroup 20F, Sweet corn	Sweet corn	Sweet corn: Sweet corn, [Sweet corn (corn-on-the cob)]; [Sweet corn (kernels)]; [Sweet corn (baby corn)]

Proposed new commodities are shaded.

Note that Japanese millet was not included in the ICGCC proposal since its use is for forage, silage and hay, rather than as a grain.

Note that the ICGCC proposal also included Wild rice, Eastern, *Zizania aquatica* L.

APPENDIX IV**LIST OF PARTICIPANTS**

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