



Methylmercury and total mercury in fish Request for data on methylmercury and total mercury in fish Issued 14 September 2020

Background

The 13th Session of the Codex Committee on Contaminants in Foods (CCCF13), held in Yogyakarta, Indonesia, from April 29 - May 3, 2019, agreed to continue work on the establishment of maximum levels (MLs) for additional fish species and to re-establish the Electronic Working Group (EWG) led by New Zealand and Canada to prepare proposals for MLs and associated sampling plans for additional fish species for consideration by CCCF14 (2021). In view of the postponement of CCCF14 from 2020 to 2021 due to the pandemic situation there is the opportunity to further progress this work based on the findings in the discussion paper submitted for consideration by Codex members.

We are requesting submission of new / additional data on methylmercury and total mercury in all fish species which has not previously been submitted. The submitted data should cover approximately the last 12 years. Data should be submitted by 15 December, 2020, to allow time for data analysis and drafting and review of the paper. The call for data can also be viewed online at http://www.who.int/foodsafety/en/ or http://www.who.int/foodsafety/en/ or http://www.who.int/foodsafety/en/ or http://www.who.int/foodsafety/en/ or http://www.gao.org/food-safety/scientific-advice/calls-for-data-and-experts/en/. In particular, data is solicited for those fish species for which insufficient data was available at the time the EWG prepared the discussion paper (CX/CF 20/14/11)*, as identified in Appendix I of the paper, which is reproduced as an Annex to this call for convenience. Fish species for which MLs have already been established, as described in the General Standard for Contaminants in Food and Feed* (CXS 193-1995), are excluded from this exercise.

Date for submission
The submission of data is requested before

15 December 2020
This deadline applies to all data to be submitted.

WHO will be compiling data for the EWG. All new data must be submitted to WHO through the GEMS database, which is now easily accessible on the web. To access the GEMS database, go to http://www.who.int/foodsafety/areas_work/chemical-risks/gems-food/en/. Please read the "GEMS/Food Database Manual" before attempting to submit data to GEMS. To submit data, you will need an account, and instructions on creating an account are found on page 2 of the manual. For technical questions about submitting data to GEMS, please contact Philippe Verger at WHO (vergerp@who.int and cc andrew.pearson@mpi.govt.nz).

Note that data already submitted to the GEMS Food Database do not need to be re-submitted.

When submitting data to the GEMS/Food database for this work, please:

- Provide complete information on the LOQ and LOD of analytical methods.
- Provide information in the "Local Food Identifier" or "Remark/references" fields of the database to allow more specific identification of samples, e.g., Is a food fresh or processed, including canned, preserved, salted, etc.?
- Provide information on "State of food analysed," i.e., cooked or raw, and on "portion analysed" i.e. fat content, dry weight, as is or as consumed.
- Provide information for both methylmercury and total mercury and indicate if these form a paired analysis;
- Ideally provide information from at least two locations in representative fishery areas;
- Provide binomial (Latin) names of fish species or FAO taxonomic coding;
- Provide information whether it is domestically caught fish or imported fish.

^{*} Working documents for CCCF14 are available for downloading from the Codex website: http://www.fao.org/fao-who-codexalimentarius/meetings/detail/en/?meeting=CCCF&session=14

[†] Codex standards for contaminants including the GSCTFF are available for consultation on the Codex website: http://www.fao.org/fao-who-codexalimentarius/committees/committee/related-standards/en/?committee=CCCF

SUMMARY TABLE OF RECOMMENDATIONS (FOR CONSIDERATION BY CCCF14) – ADDITIONAL FISH SPECIES FOR WHICH DATA IS SOUGHT TO CONSIDER THE FEASIBILITY TO ESTABLISH CODEX MAXIMUM LEVELS ARE BOLDED

Common name	Scientific name	Taxonomic grouping	FAO taxonomic code	Mean methylmercury [total mercury] concentration (mg/kg)	Date of review and recommendation
Anchovies	Engraulidae sp.	Family	1,21(06)xxx,xx	0.05 [0.07]	2019: No ML required
Anglerfish	Lophius sp.	Genus	1,95(01)001,xx	0.60 [0.18]	2020: Data collection- low sample numbers and wide disparity between methylmercury and total mercury
Barracuda	Sphyraena sp.	Genus	1,77(10)001,xx	[0.69]	2019: Data collection – low sample numbers and no methylmercury results
Blue moki	Latridopsis ciliaris	Species	1,70(71)309,01	[0.12]	2019: No ML required
Butterfish	Odax pullus	Species	1,70(64)003,01	[0.02]	2019: No ML required
Cardinalfish	Epigonus telescopus	Species	1,70(96)373,01	[1.27]	2019: Data collection— no methylmercury results
Carp	Cyprinidae	Family	1,40(02)xxx,xx	0.03 [0.13]	2019: No ML required
Catfish	Siluriformes sp.	Order	1,41(xx)xxx,xx	[0.41]	2020: Data collection – wide disparity in means for species, low sample numbers and no methylmercury results
Codfish	Gadinae sp.	Sub-family	1,48(04)xxx,xx	0.05 [0.07]	2019: No ML required
Cusk-eel	Ophidiidae	Family	1,58(02)xxx,xx	0.46 [0.46]	2020: Average methylmercury exceeds selection criteria; proposed for ML setting
Cutlassfish	Trichiuridae sp.	Family	1,75(06)xxx,xx	[0.16]	2019: Data collection – wide disparity in means for species, low sample numbers and no methylmercury results
Eels	Anguilliformes sp.	Order	1,43(xx)xxx,xx	0.18 [0.19]	2019: No ML required
Greenling	Hexagrammidae	Family	1,78(07)xxx,xx	[0.28]	2020: Data collection – low sample numbers and no methylmercury results
Grouper	Epinephelus sp.	Genus	1,70(02)042,xx	[0.27]	2019: No ML required Data collection – limited geographic distribution and average approaching the selection criteria

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Hapuku	Polyprion oxygeneios	Species	1,70(05)058,02	[0.33]	2019: Data collection – low sample numbers and no methylmercury results
Herring	Clupeidae sp.	Family	1,21(05)xxx,xx	0.04 [0.04]	2019: No ML required
Kahawai	Arripis trutta	Species	1,70(29)051,02	[0.24]	2019: No ML required
Ling	Lotidae sp.	Sub-family	1,48(04)xxx,xx	[0.28]	2019: Data collection for individual species – cusk and blue ling
Mahi-mahi	Coryphaena hippurus	Species	1,70(28)071,01	[0.23]	2019: No ML required
Medusafish	Centrolophidae sp.	Family	1,769(08)xxx,xx	[0.11]	2019: No ML required
Merluccid hake	Merlucciidae sp.	Family	1,48(05)xxx,xx	0.20 [0.13]	2019: No ML required
Mullet	Mugilidae sp.	Family	1,65(01)xxx,xx	0.02 [0.14]	2019: No ML required
Orange Roughy	Hoplostethus atlanticus	Species	1,61(05)002,02	0.43 [0.56]	2020: Average methylmercury exceeds selection criteria; proposed for ML setting
Pacific red gurnard	Chelidonichthys kumu	Species	1,78(02)003,01	[0.11]	2019: No ML required
Perch	Percidae sp.	Family	1,70(14)xxx,xx	[0.20]	2019: No ML required
Phycid hake	Phycidae	Sub-family	1,48(04)xxx,xx	[0.13]	2019: No ML required Data collection for individual species – white hake
Pike	Escoidae sp.	Family	1,24(03)xxx,xx	[0.29]	2019: No ML required Data collection – limited geographic distribution and average approaching the selection criteria
Pomfrets	Brama sp.	Genus	1,70(27)003,xx	[0.07]	2019: No ML required
Porgies	Sparidae sp.	Family	1,70(39)xxx,xx	[0.17]	2019: No ML required
Rays and skate	Rajiformes sp.	Order	1,10(xx)xxx,xx	[0.18]	2019: No ML required
Red cod	Pseudophycis bachus	Species	1,48(02)014,01	[0.06]	2019: No ML required
Redbait	Emmelichthys nitidus	Species	1,70(30)010,01	[0.15]	2019: No ML required
Right eyed flounder & sole	Pleuronectidae sp./ Soleidae sp.	Family	1,83(02)xxx,xx and 1,83(03)xxx,xx	0.11 [0.21]	2019: No ML required

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Rockfish	Sebastes sp.	Genus	1,78(01)001,xx	[0.19]	2019: No ML required
Sablefish	Anoplopoma fimbria	Species	1,78(08)004,01	[0.43]	2020: Data collection— no methylmercury results
Salmonids	Salmonidae sp.	Family	1,23(01)xxx,xx	0.03 [0.04]	2019: No ML required
Sea bass	Unknown	Unknown	Unknown	[0.21]	2019: No ML required Data collection – species not clearly identifiable
Short nosed chimera	Chimaeridae sp.	Family	1,12(01)xxx,xx	[0.38]	2019: Data collection – no methylmercury results
Snake mackerel	Gempylidae sp.	Family	1,75(05)xxx,xx	[0.39]	2020: Data collection— no methylmercury results
Snapper	Lutjanus sp.	Genus	1,70(32)xxx,xx	[0.30]	2019: Data collection— low sample numbers and no methylmercury results
Sturgeon	Acipenseridae sp.	Family	1,17(01)xxx,xx	[0.08]	2020: No ML required
Temperate bass	Moronidae sp.	Family	1,70(04)xxx,xx	0.04 [0.18]	2019: No ML required
Tilapia	Oreochromis sp.)	Genus	1,70(59)051,xx	[0.01]	2020: No ML required
Toothfish	Dissostichus sp.	Genus	1,70(92)015,xx	[0.41]	2020: Data collection— no methylmercury results
Turbot	Psetta maxima	Species	1,83(05)092,01	[0.08]	2019: No ML required
Typical smelt	Osmeridae sp.	Family	1,23(04)xxx,xx	0.07 [0.06]	2019: No ML required
Wolffish	Anarhichas sp.	Genus	1,71(02)001,xx	0.12 [0.10]	2019: No ML required