

SEA-FISHERIES PROTECTION AUTHORITY SAFE SUSTAINABLE SEAFOOD BIA MARA SÁBHÁILTE INBHUNAITHE

### North West Waters Advisory Council

Heavy Metal Contaminants

Paris May 2023



# **Cancer Pagurus Distribution and Depths**



SEA-FISHERIES PROTECTION AUTHORITY



## EU Brown Crab landing patterns



	Country	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	United Kingdom	24.457	25.763	27.273	28.778	32.063	28.986	33.761	32.410	32.018	31.004
4%	Ireland	8.210	6.691	6.269	6.378	7.118	7.191	7.285	6.577	8.261	7.744
	Norway	5.773	5.319	4.981	5.241	4.629	4.743	4.926	4.924	5.852	5.365
	France	5.916	6.950	6.141	5.925	6.132	4.565	4.490	4.324	3.706	3.193
	Netherlands	394	444	470	554	580	519	577	596	572	1.028
	Channel Islands	1.179	1.193	1.252	1.173	1.233	996	1.073	984	944	696
	Isle of Man	459	554	495	453	519	477	534	967	629	435
	Sweden	213	204	204	223	212	224	208	251	271	275
	Denmark	61	74	81	69	79	138	292	233	329	259
	Belgium	95	104	272	271	272	330	305	280	258	240
	Germany	135	144	114	115	107	169	186	158	149	158
	Spain	61	65	86	82	49	67	66	61	70	72
	Portugal	1	1	2	1	2	3	2	16	11	12
	Total 46	6.954 47	7.506	47.640	49.263	52.995	48.408	53.705	51.781	1 53.0	70 50.480



PRES Type	2017	2018	2019	2020
	Volume Value	Volume Value	Volume Value	Volume Value
Live, fresh, Chilled	8.812 42.538	9.480 61.108	11.229 75.700	7.744 39.428
Frozen	8.069 48.926	9.336 72.572	8.112 64.176	5.038 45.810
Other	1.563 8.996	1.421 10.475	1.589 10.787	1.665 10.290
Total	18.443 100.459	20.237 144.155	20.930 150.663	14.448 95.528

Source: EUMOFA elaboration of EUROSTAT, IHS MARKIT, and Statistics Norway

Total exports of Brown Crab by preservation status from major catch nations

Volume (MT); Value (€m)



Species FAO	Year	Production (MT)	Exported outside EU (MT)
CRE	2020	4,834	283
CRE	2021	5,992	345
CRE	2022	5,578	400

MAIN MARKETS FOR IRISH CRAB

EU (France | Spain)

Vietnam | Korea | China | Japan | Canada



- HM such as mercury, lead, arsenic and cadmium, occur naturally in the environment and in industrial pollutants and therefore in foods through human consumption of animals and plants
- · Advice to consumers is 'take a varied and balanced diet to minimise their impact exposure'
- Some HM and their related chemical compounds dissolve easily in water, while others continue to exist in particulate form
- Relatively low amounts are present in water, soil and the seabed
- Shellfish, Crustaceans and predatory-type fish typically carry higher quantities of HM in their bodies. Shellfish ingest and can accumulate HM that have sunk to the ocean floor while predatory-type fish are unable to excrete HM as quickly as they ingest them through their consumption of other seafood
- Arsenic in seafood is predominantly the non-toxic Organic form
- Shellfish and Crustaceans can accumulate higher levels of Cadmium and Arsenic

## Heavy Metals

•

٠

۲

•



- Cadmium (Cd) Arsenic (As) Mercury (Hg) Lead (Pb) Predatory fish
- Copper (Cu)
- Chromium (Cr)
- Nickel (Ni)
- Selenium (Se)
- Aluminium (AI)



## HM Regulations - EU



SEA-FISHERIES PROTECTION AUTHORITY

<ul> <li>Publications Office - CELEX:32023R: X +</li> <li>← → C A https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32023R0915</li> <li>Getting Started</li> <li>∧ ∨ 1 of 55 + 100% ∨</li> <li>88 @ 0 @ 122</li> <li>Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/2006</li> <li>S.5.2023 EN Official Journal of the European Union</li> <li>COMMISSION REGULATION (EU) 2023/915 of 25 April 2023</li> <li>on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/2006</li> </ul>	<u>L 119/103</u>	ල lii\ දි = ⊡ Other Bookma ළ ⊡   I ළ
<ul> <li>← → C</li> <li>← → C</li> <li>← https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32023R0915</li> <li>● Getting Started</li> <li>↑ ↑ 1 of 55</li> <li>−   + 100% ▼</li> <li>S.5.2023 EN</li> <li>Official Journal of the European Union</li> <li>S.5.2023 EN</li> <li>Official Journal of the European Union</li> <li>COMMISSION REGULATION (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (Text with EEA relevance)</li> <li>THE EUROPEAN COMMISSION, Having regard to the Treaty on the Functioning of the European Union, Having regard to Council Regulation (EC). No 315/93 of 8 February 1993 laying dor</li> </ul>	<u>L 119/103</u>	ເອົ lii\ ຢີ = ີ⊡Other Bookmai ເງິ ເງິ [ ຢີ ] [ ຢີ ]
Getting Started    Image: Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain non 1 0 0 0 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0	L 119/103	다 Other Bookma 은 대   I 교
<ul> <li>              1 of 55</li></ul>	L 119/103	€ B I ∠
B       Image: Commission Regulation (EU) No         2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No         1881/2006       Image: Commission Regulation (EC) No         Image: Commission Regulation (EC) No       Image: Commission Regulation (EC) No         Image: Commission Regulation (EC) No       Image: Commission Regulation (EC) No         Image: Commission Regulation (EE) No       Image: Commission Regulation (EE) No         Image: Commission Regulation (EE) No       Image: Commission Regulation (EE) No         Image: Commissisin Regulation (EE) No	L 119/103	
<ul> <li>Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/2006</li> <li>S.5.2023 EN Official Journal of the European Union</li> <li>COMMISSION REGULATION (EU) 2023/915 of 25 April 2023</li> <li>on maximum levels for certain contaminants in food and repealing Regulatio (Text with FEA relevance)</li> <li>THE EUROPEAN COMMISSION, Having regard to the Treaty on the Functioning of the European Union, Having regard to Council Regulation (EEC) No 315/93 of 8 February 1993 laying dor</li> </ul>	L 119/103	
THE EUROPEAN COMMISSION, Having regard to the Treaty on the Functioning of the European Union, Having regard to Council Regulation (EEC) No 315/93 of 8 February 1993 laying do	m (EC) No 1881/2006	
contaminants in food (i), and in particular Article 2(3) thereof,	vn Community procedures for	
<ul> <li>Whereas:</li> <li>(1) Commission Regulation (EC) No 1881/2006 (<sup>2</sup>) sets maximum levels for certai Regulation has already been amended substantially many times and since a numbe made to that Regulation, it should be replaced.</li> <li>(2) Maximum levels should be set at a strict level, which is reasonably achievable by foll and manufacturing practices and taking into account the risk related to the consump possible health risk, maximum levels for contaminants should be set at a level, achievable (LARA). Such an approach ensures that food business operators apply the contamination as much as possible in order to protect public health. It is fin protection of the health of infants and young children, a vulnerable group, to estable which are achievable (through a strict selection of the raw materials used for the rapatition is due anymoratic for the propriate, with specific manufacturing practices, materials used for the rapatition.</li> </ul>	n contaminants in food. That r of new amendments are to be owing good agricultural, fishery tion of the food. In the case of a which is as low as reasonably	

## HM Regulations - China



14/05/2023





- Commission Regulation EU 2023/915 repealing Regulation EC 1881/2006 (wef 25.5.23)
- Harmomise terminology used across amendments to 1881
- Consolidate all previous amendments to 1881
- Re-cast does not introduce any changes to ML's in foods
- ML's for Lead, Cadmium, MethylMercury in Crustaceans remain at 0.5mg/kg (ppm)





- Proposed new ML's for iAs in fish and fishery products due in 2023
- Multi-national dataset being coordinated / analysed by EFSA and COM with view to potential changes in proposed ML's
- Consideration by EU WG on Industrial and Environmental Contaminants to propose new draft regulation
- Stakeholder consultation
- Planned but no current EU contaminants legislation specifically for As



- EU REGULATION 2023/915 (REPLACING 1881/2006)
- Crustaceans 0.5mg/kg
- 'The maximum level applies muscle appendages abdomen, to meat from and • which cephalothorax excluded. of that the of crustaceans is In crabs means case crustaceans (Brachyura applies and crab-like and Anomura) the maximum level to the muscle meat from appendges'
- CHINESE STANDARD GB2762-2017
- Crustacean 0.5mg/kg
- GB2762-2022 (REPLACING GB2762-2017)
- Crustaceans (excluding sea crab and mantis shrimp) 0.5mg/kg
- Sea crab and mantis shrimp 3.0mg/kg

# EU - China ML for ARSENIC



- EU REGULATION 2023/915 (REPLACING 1881/2006)
- Does not specify ML for fish / fishery products

- CHINESE STANDARD GB2762-2017
- 'Aquatic animal and its products (excluding fish and fish products) iAs = 0.5mg/kg Fish and fish products = 0.1mg/kg'
- For products that should have inorganic arsenic limit, total arsenic should be tested first; when the total arsenic level is lower or equals to the inorganic arsenic limit, it is not necessary to test the inorganic arsenic; otherwise, the inorganic arsenic should be tested again.
- GB2762-2022 (REPLACING GB2762-2017)
- ML is unchanged from 2017 standard



# THANK YOU

bernard.odonovan@sfpa.ie