



- > Subcategorization of aquatic animals in the ANIMUSE questionnaire
- > Highlights of the global survey on AMU/AMR in aquaculture Middle East



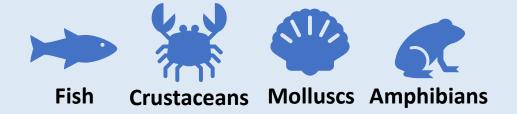


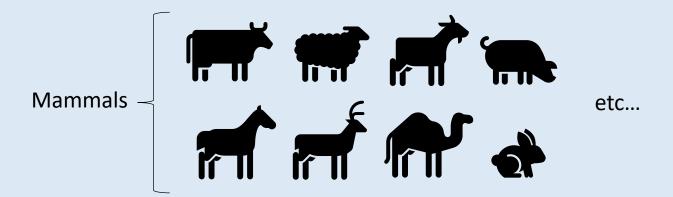
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Previous categorization of Aquatic Animals







Aquaculture diversity

- 24 main fish species (out of 313 cultured species)
- 8 main crustacean species (out of
 49 cultured species)





FISH CRUSTACEANS

Cichlids	Cyprinids	Salmonids	Siluriformes	Marine	Other
Nile tilapia: 4.5	Grass carp: 5.8	Atlantic salmon*: 2.7	Striped catfish: 2.5	Mullets nei: 0.3	Milkfish*: 1.2
Tilapias nei: 1.1	Silver carp: 4.9	Rainbow trout: 1.0	Clarias catfishes: 1.2	Gilthead seabream: 0.3	Largemouth black bass: 0.6
	Common carp: 4.2	Coho salmon: 0.2		Large yellow croaker: 2.5	Barramundi*: 0.1
	Catla: 3.5			European seabass: 2.4	
	Bighead carp: 3.2			Groupers nei: 0.2	
	Carassius spp.: 2.7			Japanese seabass: 0.2	
	Roho labeo: 2.5			Pompano: 0.2	
	Wuchang bream: 0.8			Japanese amberjack: 0.1	
	Black carp: 0.7				
5.6	28.3	3.9	3.7	6.2	1.9

Penaeids	Other	
Whiteleg shrimp: 5.8	Red swamp crawfish: 2.5	
Giant tiger prawn: 0.7	Chinese mitten crab: 0.8	
	Giant river prawn: 0.3	
	Indo-Pacific swamp crab: 0.2	
	Oriental river prawn: 0.2	
	Green mud crab: 0.2	
6.5	4.2	





Sub-categorization of aquatic animals for AMU global data collection











Food-producing animal species <u>covered by the</u> information on antimicrobial quantities	Terrestrial food-producing animals Cattle Pigs - commercial Pigs - backyard Sheep Goats Sheep and goats (mixed flocks) Layers - commercial production for eggs Broilers - commercial production for meat Other commercial poultry Poultry - backyard Buffaloes (excluding Syncerus caffer) Cervidae (farmed) Camelidae Equidae Rabbits Bees - honey Reptiles (e.g. crocodiles) Other terrestrial food-producing animals All - terrestrial food-producing animals All - terrestrial food-producing animals All - terrestrial food-producing animals Fish - Silmonidae Fish - Silmonidae Fish - Silmonidae Fish - Undefined Crustaceans - Penaeidae Molluscs Amphibians	Please indicate which food-producing animals are covered by the data. Multiple selections are possible. For the purpose of this database, the following terms are defined: 1. Terrestrial food-producing animals pigs - commercial: pigs including piglets, fattenin pigs and breeding pigs. Sheep/goats (mixed flocks): use this option only there are mixed flocks and you cannot differentiate between sheep and goats in your country. Other commercial poultry: it includes turkey, duck, geese, quail, guinea fowl, pheasant, pigeon, ostrich, etc. in commercial production. Poultry - backyard: poultry including chickens an hens in backyard or village flocks. Equidae: horses, donkeys and their crosses. All - terrestrial food-producing animals use this option only if all terrestrial food-producing animals isted in question 25 (e.g. cattle, pigcommercial, pigs - backyard, etc.) were included it the information on antimicrobial quantities. 2. Aquatic food-producing animals (aquaculture) Fish - Cyprinidae: carp, etc. Fish - Silmonidae: salmon, trout, etc. Fish - Silmonidae: salmon, trout, etc. Fish - Silmiformes: catfish, etc. Crustaceans - Penaeidae: marine shrimp/prawn. All - aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals listed in question 25 (e.g. Fish - Cyprinidae, Fish - Salmonidae, Crustaceans: Penaeidae, Molluscs, etc.) were included in the irrmation on antimicrobial quantities.
	Crustaceans - Penaeidae	
	All - aquatic food-producing animals (aquaculture)	

27 Non food-producing animal species covered by antimicrobial quantities, if any Canines Felines Equidae Ornamental Fish Other Clarification of other species considered to be non food-producing animals, if your response to Question 27 is 'Other'

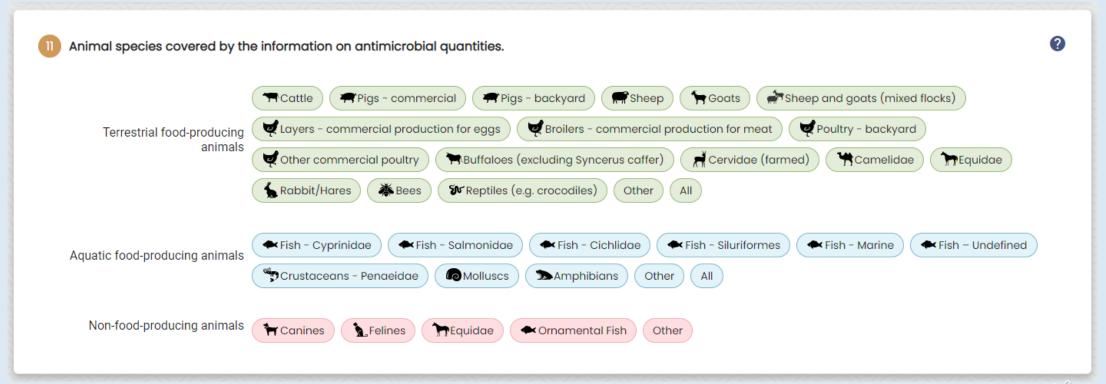
Please indicate which non food-producing animals are covered by the data. Multiple selections are possible.

Template (since Sep 2021: 7th round)





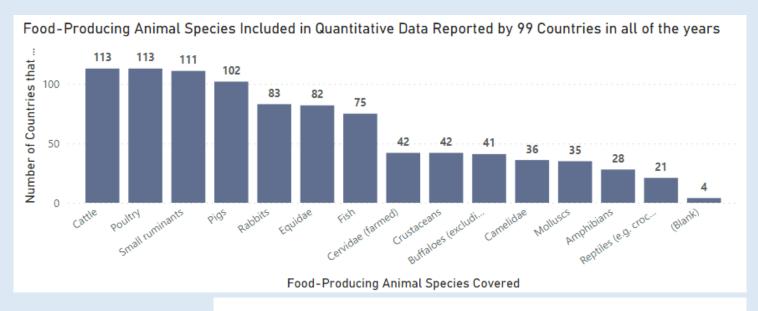
ANIMUSE (since Sep 2022: 8th round)

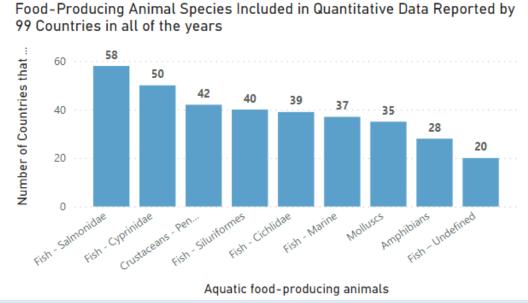




Sub-categorization of aquatic animals for AMU global data collection

Results - 7th round (AMU data in ANIMUSE: Sep 2021 – May 2022)









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Focal Points for

- Aquatic Animals
- Veterinary Products

Support development of Formation Plan for FP on AMR in Aquaculture (needs/gaps and strengths in each Region)

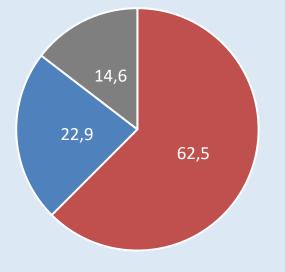


- A) General aquaculture profile
- B) Antimicrobial use and antimicrobial resistance in aquaculture profile
- C) Awareness and compliance to WOAH standards and tools related to AMU/AMR in aquatic animals
- D) <u>Training needs</u> on AMU/AMR in aquatic animals

Region	FP-AA	FP-VP	Total FP	Total countries
Africa	25	17	42	31
Americas	22	14	36	24
Asia	15	7	22	19
Europe	30	15	45	33
Middle East	8	4	12	10
			157	117

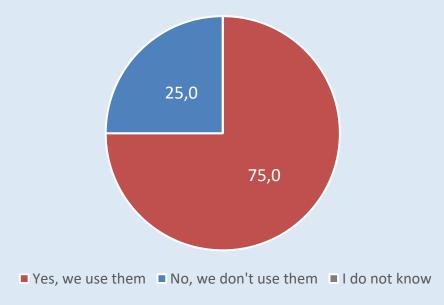






■ Yes, we use them ■ No, we don't use them ■ I do not know

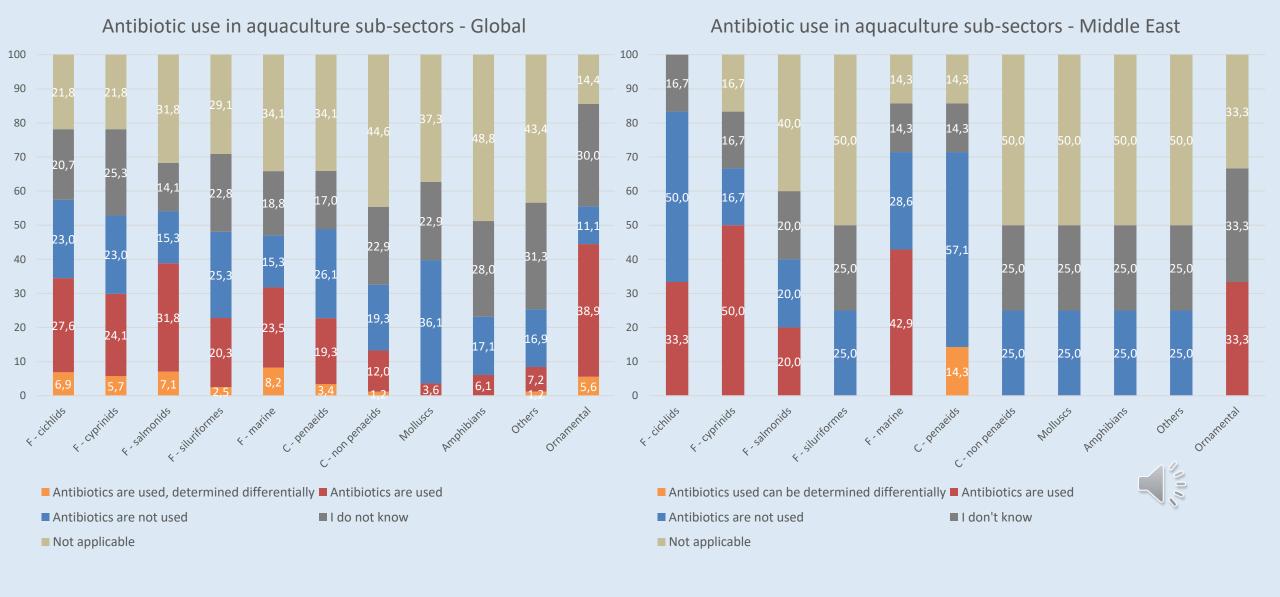
Antibiotic use in aquaculture - Middle East



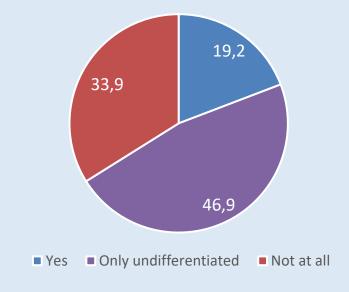




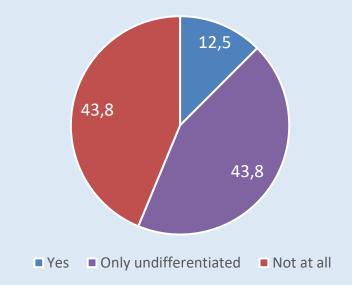
Global survey on AMU/AMR in Aquaculture



Report differentiated AMU quantities in aquatic animals to WOAH- Global

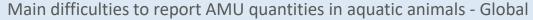


Report differentiated AMU quantities in aquatic animals to WOAH- Middle East





Global survey on AMU/AMR in Aquaculture





Main difficulties to report AMU quantities in aquatic animals - Middle East



No specific antibiotics registered for aquaculture in some countries: off-label use





Thank you



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