

Non-exhaustive list of animals containing PFAS

As part of our ZeroF awareness campaign, we randomly selected a diverse list of animal species, from bats and bees to cows, foxes, and humans, to see whether scientific studies have reported the presence of PFAS (per- and polyfluoroalkyl substances) in them.

Our goal wasn't to create an exhaustive review, but rather to illustrate how widespread PFAS contamination has become across ecosystems and species.

For each animal, we identified at least one peer-reviewed study or monitoring report confirming PFAS detection:

- **Bat** –detected in guano of wild *Myotis myotis* in Poland ([Nature](#))
- **Bee** – Honey-bee matrices from Austria showed PFAS ([James Hutton Institute](#))
- **Duck** – Ducks contained multiple PFAS in an Australian wetland survey ([PubMed](#))
- **Deer** – 12 PFAS measured in fur, liver and muscle of wild roe deer in Italy ([Frontiers](#))
- **Carp** – Common carp from European waters showed PFOA bioconcentration ([PMC](#))
- **Cat** – Swedish study found significant PFAS exposure in cats. ([PMC](#))
- **Ray** – PFAS detected across tissues rays collected in Greece. ([PubMed](#))
- **Turkey** – High-levels of PFAS detected in wild turkey in Maine ([maine.gov](#))
- **Chickens** – PFAS present in chicken eggs in Poland; farm-animal livers too. ([PubMed](#))
- **Chicks** – Feed-to-egg transfer of PFAS demonstrated in laying hens ([PubMed](#))
- **Cow** – PFOS/PFOA monitored in cow milk in northern Italy ([Journal of Dairy Science](#))
- **Sea turtle** – PFAS reported in specific turtle eggs from the Mediterranean Sea ([PubMed](#))
- **Dog** – broad PFAS detected in blood ([Frontiers](#))
- **Pig** – PFAS measured in pig liver/ham/loin in Italy ([PAGEPress Publications](#))
- **Bear** – Polar bears show PFAS exposure ([DigitalCommons URI](#))
- **Seal** – Harbor seals from the Dutch Wadden Sea had PFAS across tissues ([PubMed](#))
- **Fox** – Urban red-fox livers in Norway contained PFAS ([PubMed](#))
- **Whale** – PFAS detected in stranded cetaceans on Spain's Mediterranean coast ([PubMed](#))
- **Mouse** – Wild bank voles in Sweden showed high PFAS levels in liver ([Nature, 2025](#))
- **Snail** – European snails near a fluorochemical hotspot bioaccumulated PFAAs ([PubMed](#))
- **Goose** – Canada geese have measurable PFAS ([ScienceDirect](#))
- **Pigeon** – Low but detectable PFOS found in feral pigeon eggs ([PubMed](#))
- **Penguin** – PFAS measured in penguin feathers and eggs from Antarctica ([PubMed](#))
- **Human** – PFAS in blood across EU populations ([HBM4EU](#))