

Natural radioactivity and radiocesium in perch (*Perca fluviatilis*)

SND-ID: 2022-265-1. **Version:** 1. **DOI:** <https://doi.org/10.5878/w4bm-j476>

Download data

Radioactivity_levels_Perca_fluviatilis_Sweden.csv (807 bytes)

Radioactivity_levels_Perca_fluviatilis_Sweden.xlsx (10.81 KB)

Download all files

2022-265-1-1.zip (~11.6 KB)

Citation

Piñero García, F. (2022) Natural radioactivity and radiocesium in perch (*Perca fluviatilis*) (Version 1) [Data set]. University of Gothenburg. Available at: <https://doi.org/10.5878/w4bm-j476>

Creator/Principal investigator(s)

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Description

Activity concentration of natural radioactivity (²³⁸U, ²³⁴U, ²²⁶Ra, ²¹⁰Po) and ¹³⁷Cs in organs and tissue of wild European perch from lake Fiolen and lake Fysingen. The activity is showed in Bq/kg in fresh weight.

The samples of European perch (*Perca fluviatilis*) consisted of 39 individuals caught in Lake Fiolen and 95 individuals caught in Lake Fysingen during 2020. The sample collection was performed by the Swedish Museum of Natural History and the samples were provided as a loan from their sample bank Environmental Specimen Bank.

The data consists of the mean measurements of the radioactive elements in different anatomical regions of the perch samples. Cesium-137 content could not be measured in the fins of the samples from Lake Fysingen, resulting in a missing value.

The data is available as an Excel file and as a semicolon-separated .csv.

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2020 – 2020

Biobank is connected to the study

This study has used existing samples from a scientific collection or biobank

Scientific collection or biobank name: Miljöprovbanken / Swedish Environmental Specimen Bank

Type(s) of sample: Biological samples of European perch

Variables

7

Data format / data structure

[Numeric](#)

Species and taxons

[Perca fluviatilis linnaeus, 1758](#)

Geographic spread

Geographic location: [Sweden](#)

Geographic description: The lakes Fiolen (SWEREF99 6327724.0; 471493.0) and Fysingen (SWEREF99 6607194.0; 664270.0).

Responsible department/unit

Institute of Clinical Sciences

Research area

[Environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Fish and aquacultural science](#) (Standard för svensk indelning av forskningsämnen 2011)

[Biota](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

[Inland waters](#) (INSPIRE topic categories)

Keywords

[Radioactive elements](#), [Perch-like fishes](#), [Cesium 137](#), [Polonium 210](#), [Radium 226](#), [Uranium 234](#), [Uranium 238](#), [Radioactivity](#)

Publications

Piñero-García, F., Thomas, R., Mantero, J., Forssell-Aronsson, E & Isaksson, M. (2023). Biokinetic distribution of naturally occurring radionuclides and ¹³⁷Cs in wild European perch (*Perca fluviatilis*) from Swedish lakes [manuscript].

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Point (Lon/Lat)

17.92584, 59.563289

Point (Lon/Lat)

14.532312, 57.084924

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

Versions

Version 1. 2022-12-28

Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

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