

¹³⁷Cs uptake of forest berries

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Materials

- Forest berry samples, collected during 1987–1989 in four sampling areas in northern Finland
- In total ~1780 samples
- Species
 - blueberry (*Vaccinium myrtillus*)
 - lingonberry (*Vaccinium vitis-idaea*)
 - cranberry (*Vaccinium oxycoccos*)
 - crowberry (*Empetrum nigrum*)
- Chernobyl fallout (1.10.1986)
 - areas 1-3: 1.6–1.9 kBq m⁻²
 - area 4: 7.3 kBq m⁻²



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Results

- ¹³⁷Cs concentrations in samples picked at the same sites inside the study areas
 - blueberries and lingonberries equal
 - cranberries 3–4 times higher
 - crowberries about 20 percent lower
- no clear annual variation during 1987, 1988 and 1989
- aggregated transfer factors calculated by using mean regional deposition values of each study area are given
- the results give the range of variation in ¹³⁷Cs uptake of forest berries in varying growing conditions during the first years after the deposition

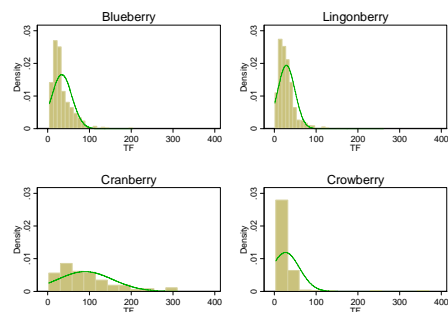
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Distribution of the aggregated transfer factors for forest berries (T_{ag} , Bq kg⁻¹ dry weight / kBq m⁻²)



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