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The peculiarities of accumulation of the main dose-forming radionuclides ( $^{90}\text{Sr}$ ,  $^{137}\text{Cs}$ ) in amphibians of Chernobyl zone was analysed. In the most cases, regardless animal species and location of capturing, activity concentration  $^{90}\text{Sr}$  and  $^{137}\text{Cs}$  varied in wide range (1 – 2 order of magnitude). From 1988 to 1992 years transfer factors of  $^{90}\text{Sr}$  and  $^{137}\text{Cs}$  in the link of "soil-animal" decreased by 3 – 4 times. Transfer factor of  $^{90}\text{Sr}$  on average exceed  $^{137}\text{Cs}$  one in all investigated species. Species differences in the accumulation of radionuclides were founded. It is noted that *Bombina bombina* and *Pelobates fuscus* accumulate more  $^{90}\text{Sr}$  than *Rana esculenta*, *Rana terrestris* and *Hyla arborea*. Terrestrial species, regardless of their taxonomic identity, have higher rates of  $^{137}\text{Cs}$  transfer factor than water inhabitant species.