

Table 4.4. Individual radiation exposures due to consumption of Irish Sea fish and shellfish, 1998

Exposed population ^b	Foodstuffs	Exposure mSv ^a										
		Total	¹⁴ C	⁹⁰ Sr	⁹⁹ Tc	¹⁰⁶ Ru	¹³⁷ Cs	²³⁸ Pu	²³⁹⁺²⁴⁰ Pu	²⁴¹ Pu	²⁴¹ Am	Others
Sellafield fishing community	Plaice and cod	0.20 ^f	0.006	0.003	0.023	0.006	0.008	0.007	0.034	0.008	0.060	<0.004
	Crabs and lobsters											
	Winkles and other molluscs											
Whitehaven commercial fisheries	Plaice and cod	0.023	0.002		0.005	0.001	0.004	0.001	0.004	0.001	0.005	<0.001
	<i>Nephrops</i>											
	Whelks											
Dumfries and Galloway	Plaice, cod and salmon	0.048 ^c	0.002		0.008	0.001	0.002	0.001	0.005	0.001	0.011	<0.001
	Crabs, Lobster and <i>Nephrops</i>											
	Winkles and mussels											
Morecambe Bay	Flounders and plaice	0.074 ^d	0.004		0.002	0.001	0.012	0.002	0.011	0.003	0.023	<0.001
	Shrimps											
	Cockles and mussels											
Fleetwood	Plaice and cod	0.027	0.005		0.001	0.001	0.011	0.001	0.003	0.001	0.004	<0.001
	Shrimps											
	Whelks											
Isle of Man	Fish and shellfish ^e	0.010			0.003	0.001	0.004		0.001		0.001	<0.001
Northern Ireland	Fish and shellfish ^e	0.014	0.001		0.003	0.001	0.004		0.001		0.003	<0.001
Typical member of the fish eating public consuming fish landed at Whitehaven and Fleetwood	Plaice and cod	0.002					0.001					<0.001

^a Due to artificial radionuclides: see text for exposures due to natural radionuclides. Blank data indicate a dose of less than 1 μ Sv. 'Others' comprises data for all radionuclides with doses below 1 μ Sv.

^b Representative of people most exposed unless stated otherwise

^c Including exposure due to 1000 h year⁻¹ occupancy over intertidal sediments

^d Including exposure due to 900 h year⁻¹ occupancy over intertidal sediments

^e Local habits surveys have not been undertaken in these areas; representative species are adopted for fish, crustaceans and molluscs

^f Including exposure due to 1100 h year⁻¹ occupancy over intertidal sediments