

Table D4. Continued

Ground range	Slant range	Dose		Neutron dose	Secondary gamma dose	Primary gamma dose	Total gamma dose	Reaction	⁴⁰ Ca(n,γ)	³⁵ Cl(n,γ)	⁵⁰ Co(n,γ)	⁶⁵ Cu(n,p)	¹⁵ Eu->gnd	¹⁵⁵ Eu(n,γ)	⁶³ Ni(n,γ)	³² S(n,p)	³⁹ K(n,α)
		Units	meter														
1700	1773			1.49E-3	1.83E-1	2.60E-1	4.43E-1	Abundance	0.96941	0.7577	1	0.6917	0.4782	0.5218	0.03634	0.9502	0.93258
1725	1797			1.29E-3	1.68E-1	2.38E-1	4.06E-1	MW	40.08	35.453	58.9332	63.54	151.96	151.96	58.71	32.064	39.102
1750	1821			1.10E-3	1.54E-1	2.12E-1	3.65E-1	Half-life	80000	301000	5.2714	100.1	13.642	8.593	100.1	14.262	301000
1800	1869			8.13E-4	1.41E-1	1.89E-1	3.30E-1	Time units									years
1825	1893			7.03E-4	1.29E-1	1.70E-1	2.99E-1	Branching ratio									
1850	1917			5.99E-4	1.18E-1	1.55E-1	2.73E-1	Detector height									
1875	1941			4.43E-4	1.08E-1	1.42E-1	2.49E-1										
1900	1965			4.43E-4	9.86E-2	1.29E-1	2.28E-1	Units in atoms									
1925	1989			3.86E-4	8.25E-2	1.14E-1	2.04E-1	(unless otherwise indicated)									
1950	2014			3.29E-4	7.54E-2	1.03E-1	1.86E-1	⁴¹ Ca/g Ca									
1975	2038			2.86E-4	6.89E-2	9.31E-2	1.69E-1										
2000	2062			2.44E-4	6.32E-2	7.52E-2	1.38E-1										
2025	2086			2.13E-4	5.78E-2	6.63E-2	1.24E-1										
2050	2111			1.81E-4	5.30E-2	6.08E-2	1.14E-1										
2075	2135			1.59E-4	4.86E-2	5.58E-2	1.04E-1										
2100	2159			1.35E-4	4.46E-2	5.01E-2	9.47E-2										
2125	2183			1.19E-4	4.10E-2	4.46E-2	8.56E-2										
2150	2208			1.01E-4	3.77E-2	4.02E-2	7.79E-2										
2175	2232			8.88E-5	3.48E-2	3.64E-2	7.12E-2										
2200	2257			7.55E-5	3.20E-2	3.32E-2	6.52E-2										
2225	2281			6.63E-5	2.96E-2	3.10E-2	6.06E-2										
2250	2305			5.66E-5	2.73E-2	2.86E-2	5.59E-2										
2275	2330			4.97E-5	2.52E-2	2.56E-2	5.08E-2										
2300	2354			4.24E-5	2.32E-2	2.33E-2	4.65E-2										
2325	2379			3.74E-5	2.15E-2	2.10E-2	4.24E-2										
2350	2403			3.18E-5	1.99E-2	1.91E-2	3.90E-2										
2375	2427			2.81E-5	1.83E-2	1.75E-2	3.58E-2										
2400	2452			2.38E-5	1.69E-2	1.58E-2	3.27E-2										
2425	2476			2.12E-5	1.56E-2	1.41E-2	2.97E-2										
2450	2501			1.79E-5	1.44E-2	1.27E-2	2.71E-2										
2475	2525			1.59E-5	1.33E-2	1.15E-2	2.48E-2										
2500	2550			1.35E-5	1.23E-2	1.05E-2	2.28E-2										