日本原子力学会標準
AESJ-SC-A005:2013
「γ線ビルドアップ係数：2013」

正誤表

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表 A.2　エネルギー吸収ビルドアップ係数(26)

[訂正前]

水

	Energy (MeV)												
X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.21E+00	1.26E+00	1.28E+00	1.31E+00	1.33E+00	1.35E+00	1.38E+00	1.42E+00	1.47E+00	1.53E+00	1.57E+00	1.63E+00	1.68E+00
1.0	1.37E+00	1.47E+00	1.53E+00	1.60E+00	1.65E+00	1.71E+00	1.80E+00	1.92E+00	2.06E+00	2.23E+00	2.34E+00	2.52E+00	2.65E+00
2.0	1.63E+00	1.83E+00	1.94E+00	2.11E+00	2.24E+00	2.40E+00	2.64E+00	3.03E+00	3.45E+00	4.04E+00	4.44E+00	5.06E+00	5.52E+00
3.0	1.88E+00	2.17E+00	2.34E+00	2.59E+00	2.79E+00	3.06E+00	3.48E+00	4.20E+00	5.02E+00	6.26E+00	7.15E+00	8.57E+00	9.63E+00
4.0	2.11E+00	2.49E+00	2.72E+00	3.07E+00	3.34E+00	3.72E+00	4.33E+00	5.44E+00	6.72E+00	8.84E+00	1.04E+01	1.30E+01	1.50E+01
5.0	2.34E+00	2.81E+00	3.09E+00	3.53E+00	3.89E+00	4.38E+00	5.20E+00	6.73E+00	8.55E+00	1.17E+01	1.42E+01	1.83E+01	2.16E+01
6.0	2.56E+00	3.11E+00	3.45E+00	4.00E+00	4.43E+00	5.05E+00	6.09E+00	8.08E+00	1.05E+01	1.49E+01	1.84E+01	2.45E+01	2.95E+01
7.0	2.78E+00	3.42E+00	3.81E+00	4.45E+00	4.97E+00	5.72E+00	6.99E+00	9.48E+00	1.26E+01	1.84E+01	2.32E+01	3.17E+01	3.87E+01
8.0	3.00E+00	3.72E+00	4.17E+00	4.91E+00	5.51E+00	6.38E+00	7.89E+00	1.09E+01	1.47E+01	2.22E+01	2.85E+01	3.98E+01	4.93E+01
9.0	3.21E+00	4.01E+00	4.52E+00	5.36E+00	6.04E+00	7.05E+00	8.81E+00	1.24E+01	1.70E+01	2.63E+01	3.42E+01	4.88E+01	6.13E+01
10.0	3.42E+00	4.30E+00	4.87E+00	5.80E+00	6.57E+00	7.72E+00	9.73E+00	1.39E+01	1.94E+01	3.07E+01	4.05E+01	5.88E+01	7.49E+01
15.0	4.45E+00	5.73E+00	6.57E+00	7.99E+00	9.19E+00	1.11E+01	1.45E+01	2.20E+01	3.22E+01	5.61E+01	7.87E+01	1.24E+02	1.67E+02
20.0	5.45E+00	7.10E+00	8.21E+00	1.01E+01	1.18E+01	1.44E+01	1.93E+01	3.05E+01	4.65E+01	8.70E+01	1.28E+02	2.15E+02	3.01E+02
25.0	6.44E+00	8.44E+00	9.81E+00	1.22E+01	1.43E+01	1.77E+01	2.42E+01	3.95E+01	6.20E+01	1.23E+02	1.87E+02	3.31E+02	4.82E+02
30.0	7.40E+00	9.75E+00	1.14E+01	1.43E+01	1.68E+01	2.10E+01	2.91E+01	4.89E+01	7.85E+01	1.62E+02	2.55E+02	4.72E+02	7.10E+02
35.0	8.36E+00	1.10E+01	1.29E+01	1.63E+01	1.93E+01	2.42E+01	3.41E+01	5.85E+01	9.59E+01	2.06E+02	3.33E+02	6.39E+02	9.87E+02
40.0	9.31E+00	1.23E+01	1.45E+01	1.83E+01	2.18E+01	2.75E+01	3.91E+01	6.84E+01	1.14E+02	2.53E+02	4.19E+02	8.30E+02	1.31E+03
45.0	1.03E+01	1.36E+01	1.60E+01	2.03E+01	2.42E+01	3.08E+01	4.42E+01	7.86E+01	1.33E+02	3.04E+02	5.13E+02	1.05E+03	1.69E+03
50.0	1.12E+01	1.48E+01	1.75E+01	2.23E+01	2.67E+01	3.41E+01	4.93E+01	8.89E+01	1.53E+02	3.58E+02	6.16E+02	1.29E+03	2.12E+03
55.0	1.21E+01	1.61E+01	1.90E+01	2.43E+01	2.91E+01	3.74E+01	5.45E+01	9.94E+01	1.73E+02	4.15E+02	7.27E+02	1.56E+03	2.61E+03
60.0	1.31E+01	1.73E+01	2.05E+01	2.63E+01	3.16E+01	4.07E+01	5.97E+01	1.10E+02	1.94E+02	4.76E+02	8.45E+02	1.85E+03	3.15E+03
65.0	1.40E+01	1.86E+01	2.20E+01	2.83E+01	3.41E+01	4.40E+01	6.50E+01	1.21E+02	2.16E+02	5.39E+02	9.72E+02	2.16E+03	3.74E+03
70.0	1.50E+01	1.98E+01	2.35E+01	3.03E+01	3.66E+01	4.74E+01	7.03E+01	1.32E+02	2.38E+02	6.06E+02	1.11E+03	2.51E+03	4.39E+03
75.0	1.59E+01	2.11E+01	2.50E+01	3.23E+01	3.91E+01	5.08E+01	7.57E+01	1.43E+02	2.61E+02	6.75E+02	1.25E+03	2.88E+03	5.10E+03
80.0	1.68E+01	2.23E+01	2.65E+01	3.44E+01	4.16E+01	5.42E+01	8.12E+01	1.55E+02	2.84E+02	7.48E+02	1.40E+03	3.27E+03	5.87E+03
85.0	1.78E+01	2.36E+01	2.81E+01	3.64E+01	4.42E+01	5.77E+01	8.68E+01	1.67E+02	3.09E+02	8.24E+02	1.56E+03	3.69E+03	6.71E+03
90.0	1.88E+01	2.49E+01	2.96E+01	3.85E+01	4.68E+01	6.13E+01	9.25E+01	1.78E+02	3.34E+02	9.03E+02	1.72E+03	4.14E+03	7.60E+03
95.0	1.97E+01	2.62E+01	3.12E+01	4.07E+01	4.95E+01	6.49E+01	9.82E+01	1.90E+02	3.59E+02	9.85E+02	1.90E+03	4.62E+03	8.56E+03
100.0	2.07E+01	2.75E+01	3.28E+01	4.28E+01	5.22E+01	6.86E+01	1.04E+02	2.03E+02	3.85E+02	1.07E+03	2.08E+03	5.13E+03	9.59E+03

	Energy (MeV)											
X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.74E+00	1.84E+00	2.01E+00	2.17E+00	2.43E+00	2.54E+00	2.50E+00	2.33E+00	2.03E+00	1.61E+00	1.22E+00	1.08E+00
1.0	2.84E+00	3.11E+00	3.58E+00	4.01E+00	4.63E+00	4.81E+00	4.50E+00	3.92E+00	3.06E+00	2.09E+00	1.36E+00	1.13E+00
2.0	6.16E+00	7.14E+00	8.75E+00	1.01E+01	1.17E+01	1.18E+01	9.91E+00	7.79E+00	5.23E+00	2.92E+00	1.56E+00	1.20E+00
3.0	1.12E+01	1.35E+01	1.72E+01	2.03E+01	2.31E+01	2.23E+01	1.72E+01	1.25E+01	7.53E+00	3.65E+00	1.72E+00	1.26E+00
4.0	1.79E+01	2.24E+01	2.97E+01	3.53E+01	3.94E+01	3.68E+01	2.64E+01	1.80E+01	9.94E+00	4.33E+00	1.85E+00	1.30E+00
5.0	2.65E+01	3.42E+01	4.69E+01	5.62E+01	6.16E+01	5.58E+01	3.77E+01	2.44E+01	1.25E+01	4.97E+00	1.96E+00	1.34E+00
6.0	3.70E+01	4.91E+01	6.94E+01	8.39E+01	9.06E+01	7.97E+01	5.10E+01	3.15E+01	1.51E+01	5.58E+00	2.06E+00	1.37E+00
7.0	4.95E+01	6.75E+01	9.81E+01	1.20E+02	1.27E+02	1.09E+02	6.65E+01	3.94E+01	1.79E+01	6.18E+00	2.15E+00	1.40E+00
8.0	6.43E+01	8.98E+01	1.34E+02	1.64E+02	1.73E+02	1.45E+02	8.44E+01	4.81E+01	2.07E+01	6.76E+00	2.24E+00	1.42E+00
9.0	8.14E+01	1.16E+02	1.77E+02	2.20E+02	2.28E+02	1.88E+02	1.05E+02	5.77E+01	2.37E+01	7.33E+00	2.32E+00	1.45E+00
10.0	1.01E+02	1.47E+02	2.30E+02	2.87E+02	2.95E+02	2.38E+02	1.28E+02	6.82E+01	2.68E+01	7.89E+00	2.39E+00	1.47E+00
15.0	2.41E+02	3.83E+02	6.60E+02	8.56E+02	8.48E+02	6.34E+02	2.92E+02	1.35E+02	4.41E+01	1.06E+01	2.71E+00	1.56E+00
20.0	4.61E+02	7.91E+02	1.49E+03	2.00E+03	1.94E+03	1.37E+03	5.56E+02	2.30E+02	6.45E+01	1.33E+01	2.97E+00	1.63E+00
25.0	7.74E+02	1.42E+03	2.90E+03	4.06E+03	3.89E+03	2.60E+03	9.51E+02	3.57E+02	8.81E+01	1.60E+01	3.20E+00	1.68E+00
30.0	1.19E+03	2.32E+03	5.11E+03	7.43E+03	7.09E+03	4.54E+03	1.52E+03	5.21E+02	1.15E+02	1.86E+01	3.40E+00	1.73E+00
35.0	1.72E+03	3.54E+03	8.38E+03	1.27E+04	1.21E+04	7.43E+03	2.29E+03	7.26E+02	1.45E+02	2.12E+01	3.58E+00	1.77E+00
40.0	2.36E+03	5.12E+03	1.30E+04	2.04E+04	1.95E+04	1.16E+04	3.31E+03	9.76E+02	1.77E+02	2.38E+01	3.74E+00	1.80E+00
45.0	3.13E+03	7.12E+03	1.92E+04	3.13E+04	3.01E+04	1.74E+04	4.63E+03	1.28E+03	2.13E+02	2.65E+01	3.89E+00	1.84E+00
50.0	4.04E+03	9.58E+03	2.74E+04	4.63E+04	4.50E+04	2.52E+04	6.31E+03	1.63E+03	2.52E+02	2.91E+01	4.04E+00	1.87E+00
55.0	5.09E+03	1.25E+04	3.79E+04	6.63E+04	6.52E+04	3.56E+04	8.39E+03	2.05E+03	2.94E+02	3.18E+01	4.18E+00	1.89E+00
60.0	6.28E+03	1.60E+04	5.11E+04	9.26E+04	9.21E+04	4.91E+04	1.10E+04	2.52E+03	3.39E+02	3.45E+01	4.31E+00	1.92E+00
65.0	7.62E+03	2.01E+04	6.74E+04	1.26E+05	1.27E+05	6.64E+04	1.40E+04	3.07E+03	3.88E+02	3.72E+01	4.43E+00	1.94E+00
70.0	9.13E+03	2.49E+04	8.73E+04	1.69E+05	1.73E+05	8.81E+04	1.78E+04	3.69E+03	4.39E+02	4.00E+01	4.55E+00	1.96E+00
75.0	1.08E+04	3.03E+04	1.11E+05	2.22E+05	2.30E+05	1.15E+05	2.21E+04	4.39E+03	4.94E+02	4.28E+01	4.67E+00	1.98E+00
80.0	1.26E+04	3.65E+04	1.39E+05	2.86E+05	3.02E+05	1.48E+05	2.73E+04	5.17E+03	5.53E+02	4.56E+01	4.78E+00	2.00E+00
85.0	1.47E+04	4.35E+04	1.73E+05	3.65E+05	3.90E+05	1.88E+05	3.33E+04	6.04E+03	6.15E+02	4.86E+01	4.90E+00	2.02E+00
90.0	1.69E+04	5.12E+04	2.11E+05	4.60E+05	4.99E+05	2.37E+05	4.03E+04	7.01E+03	6.81E+02	5.16E+01	5.00E+00	2.04E+00
95.0	1.93E+04	5.99E+04	2.56E+05	5.72E+05	6.31E+05	2.95E+05	4.83E+04	8.08E+03	7.51E+02	5.46E+01	5.11E+00	2.06E+00
100.0	2.19E+04	6.95E+04	3.07E+05	7.05E+05	7.90E+05	3.64E+05	5.74E+04	9.26E+03	8.25E+02	5.77E+01	5.22E+00	2.07E+00

表 A.2　エネルギー吸収ビルドアップ係数(27)

[訂正前]

コンクリート

Energy (MeV)

X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.23E+00	1.27E+00	1.29E+00	1.31E+00	1.33E+00	1.34E+00	1.37E+00	1.40E+00	1.44E+00	1.50E+00	1.53E+00	1.59E+00	1.63E+00
1.0	1.40E+00	1.48E+00	1.52E+00	1.58E+00	1.63E+00	1.68E+00	1.75E+00	1.85E+00	1.96E+00	2.09E+00	2.18E+00	2.32E+00	2.41E+00
2.0	1.69E+00	1.85E+00	1.94E+00	2.08E+00	2.19E+00	2.32E+00	2.52E+00	2.81E+00	3.11E+00	3.51E+00	3.78E+00	4.16E+00	4.42E+00
3.0	1.96E+00	2.19E+00	2.34E+00	2.56E+00	2.73E+00	2.96E+00	3.30E+00	3.84E+00	4.40E+00	5.19E+00	5.71E+00	6.47E+00	6.97E+00
4.0	2.23E+00	2.54E+00	2.73E+00	3.04E+00	3.28E+00	3.60E+00	4.11E+00	4.93E+00	5.81E+00	7.12E+00	7.98E+00	9.24E+00	1.01E+01
5.0	2.50E+00	2.88E+00	3.13E+00	3.52E+00	3.83E+00	4.26E+00	4.93E+00	6.09E+00	7.34E+00	9.28E+00	1.06E+01	1.25E+01	1.38E+01
6.0	2.76E+00	3.23E+00	3.53E+00	4.01E+00	4.39E+00	4.92E+00	5.78E+00	7.29E+00	8.97E+00	1.17E+01	1.35E+01	1.63E+01	1.81E+01
7.0	3.04E+00	3.58E+00	3.93E+00	4.50E+00	4.95E+00	5.60E+00	6.65E+00	8.55E+00	1.07E+01	1.43E+01	1.68E+01	2.05E+01	2.30E+01
8.0	3.31E+00	3.93E+00	4.33E+00	4.99E+00	5.52E+00	6.28E+00	7.53E+00	9.85E+00	1.25E+01	1.71E+01	2.03E+01	2.53E+01	2.86E+01
9.0	3.59E+00	4.28E+00	4.73E+00	5.48E+00	6.09E+00	6.96E+00	8.43E+00	1.12E+01	1.44E+01	2.01E+01	2.42E+01	3.06E+01	3.49E+01
10.0	3.87E+00	4.64E+00	5.14E+00	5.97E+00	6.66E+00	7.65E+00	9.34E+00	1.26E+01	1.63E+01	2.33E+01	2.84E+01	3.64E+01	4.18E+01
15.0	5.33E+00	6.44E+00	7.20E+00	8.47E+00	9.54E+00	1.12E+01	1.40E+01	1.98E+01	2.70E+01	4.19E+01	5.37E+01	7.32E+01	8.73E+01
20.0	6.89E+00	8.31E+00	9.29E+00	1.10E+01	1.25E+01	1.47E+01	1.89E+01	2.77E+01	3.89E+01	6.43E+01	8.58E+01	1.23E+02	1.51E+02
25.0	8.55E+00	1.02E+01	1.14E+01	1.36E+01	1.54E+01	1.83E+01	2.39E+01	3.59E+01	5.18E+01	9.00E+01	1.24E+02	1.86E+02	2.35E+02
30.0	1.03E+01	1.22E+01	1.36E+01	1.61E+01	1.84E+01	2.20E+01	2.89E+01	4.45E+01	6.56E+01	1.19E+02	1.68E+02	2.61E+02	3.38E+02
35.0	1.21E+01	1.42E+01	1.58E+01	1.87E+01	2.13E+01	2.57E+01	3.41E+01	5.35E+01	8.00E+01	1.50E+02	2.18E+02	3.49E+02	4.62E+02
40.0	1.40E+01	1.62E+01	1.80E+01	2.13E+01	2.43E+01	2.94E+01	3.93E+01	6.26E+01	9.50E+01	1.84E+02	2.73E+02	4.49E+02	6.06E+02
45.0	1.60E+01	1.82E+01	2.02E+01	2.39E+01	2.73E+01	3.31E+01	4.46E+01	7.20E+01	1.11E+02	2.21E+02	3.33E+02	5.62E+02	7.71E+02
50.0	1.81E+01	2.03E+01	2.24E+01	2.65E+01	3.03E+01	3.68E+01	4.99E+01	8.16E+01	1.27E+02	2.59E+02	3.98E+02	6.87E+02	9.58E+02
55.0	2.03E+01	2.24E+01	2.47E+01	2.91E+01	3.33E+01	4.05E+01	5.53E+01	9.14E+01	1.43E+02	3.00E+02	4.68E+02	8.24E+02	1.17E+03
60.0	2.25E+01	2.46E+01	2.69E+01	3.17E+01	3.63E+01	4.43E+01	6.08E+01	1.01E+02	1.60E+02	3.43E+02	5.42E+02	9.74E+02	1.40E+03
65.0	2.48E+01	2.68E+01	2.92E+01	3.44E+01	3.94E+01	4.81E+01	6.62E+01	1.11E+02	1.77E+02	3.89E+02	6.22E+02	1.14E+03	1.65E+03
70.0	2.71E+01	2.90E+01	3.15E+01	3.71E+01	4.24E+01	5.19E+01	7.18E+01	1.22E+02	1.95E+02	4.36E+02	7.06E+02	1.31E+03	1.93E+03
75.0	2.96E+01	3.12E+01	3.39E+01	3.98E+01	4.55E+01	5.58E+01	7.74E+01	1.32E+02	2.13E+02	4.85E+02	7.94E+02	1.50E+03	2.23E+03
80.0	3.21E+01	3.34E+01	3.63E+01	4.25E+01	4.86E+01	5.97E+01	8.31E+01	1.43E+02	2.32E+02	5.37E+02	8.88E+02	1.70E+03	2.55E+03
85.0	3.47E+01	3.57E+01	3.86E+01	4.52E+01	5.18E+01	6.36E+01	8.88E+01	1.54E+02	2.50E+02	5.90E+02	9.86E+02	1.91E+03	2.90E+03
90.0	3.73E+01	3.81E+01	4.11E+01	4.80E+01	5.49E+01	6.76E+01	9.47E+01	1.64E+02	2.69E+02	6.46E+02	1.09E+03	2.14E+03	3.27E+03
95.0	4.01E+01	4.04E+01	4.35E+01	5.08E+01	5.81E+01	7.16E+01	1.01E+02	1.75E+02	2.88E+02	7.03E+02	1.20E+03	2.38E+03	3.66E+03
100.0	4.29E+01	4.28E+01	4.60E+01	5.36E+01	6.14E+01	7.57E+01	1.07E+02	1.87E+02	3.08E+02	7.63E+02	1.31E+03	2.63E+03	4.09E+03

Energy (MeV)

X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.68E+00	1.75E+00	1.85E+00	1.91E+00	1.91E+00	1.82E+00	1.59E+00	1.43E+00	1.26E+00	1.12E+00	1.04E+00	1.01E+00
1.0	2.54E+00	2.70E+00	2.89E+00	2.98E+00	2.83E+00	2.56E+00	2.04E+00	1.72E+00	1.41E+00	1.19E+00	1.06E+00	1.02E+00
2.0	4.75E+00	5.15E+00	5.51E+00	5.51E+00	4.76E+00	3.95E+00	2.78E+00	2.15E+00	1.63E+00	1.28E+00	1.08E+00	1.03E+00
3.0	7.59E+00	8.32E+00	8.82E+00	8.56E+00	6.83E+00	5.29E+00	3.41E+00	2.49E+00	1.79E+00	1.34E+00	1.10E+00	1.04E+00
4.0	1.11E+01	1.23E+01	1.29E+01	1.22E+01	9.06E+00	6.64E+00	3.99E+00	2.79E+00	1.92E+00	1.39E+00	1.12E+00	1.05E+00
5.0	1.53E+01	1.70E+01	1.77E+01	1.63E+01	1.15E+01	8.00E+00	4.54E+00	3.06E+00	2.04E+00	1.43E+00	1.13E+00	1.05E+00
6.0	2.03E+01	2.27E+01	2.34E+01	2.11E+01	1.41E+01	9.40E+00	5.07E+00	3.32E+00	2.14E+00	1.47E+00	1.14E+00	1.06E+00
7.0	2.61E+01	2.93E+01	3.00E+01	2.64E+01	1.69E+01	1.08E+01	5.58E+00	3.55E+00	2.24E+00	1.50E+00	1.15E+00	1.06E+00
8.0	3.27E+01	3.70E+01	3.76E+01	3.25E+01	1.98E+01	1.23E+01	6.09E+00	3.78E+00	2.33E+00	1.53E+00	1.15E+00	1.06E+00
9.0	4.02E+01	4.57E+01	4.63E+01	3.92E+01	2.30E+01	1.38E+01	6.58E+00	3.99E+00	2.41E+00	1.56E+00	1.16E+00	1.07E+00
10.0	4.86E+01	5.56E+01	5.60E+01	4.67E+01	2.64E+01	1.53E+01	7.07E+00	4.20E+00	2.48E+00	1.58E+00	1.17E+00	1.07E+00
15.0	1.05E+02	1.25E+02	1.24E+02	9.58E+01	4.64E+01	2.35E+01	9.42E+00	5.14E+00	2.81E+00	1.68E+00	1.19E+00	1.08E+00
20.0	1.89E+02	2.31E+02	2.29E+02	1.67E+02	7.13E+01	3.23E+01	1.17E+01	5.97E+00	3.08E+00	1.76E+00	1.21E+00	1.09E+00
25.0	3.02E+02	3.81E+02	3.79E+02	2.63E+02	1.01E+02	4.18E+01	1.38E+01	6.71E+00	3.31E+00	1.82E+00	1.23E+00	1.09E+00
30.0	4.48E+02	5.82E+02	5.82E+02	3.86E+02	1.36E+02	5.19E+01	1.59E+01	7.40E+00	3.52E+00	1.88E+00	1.24E+00	1.10E+00
35.0	6.27E+02	8.37E+02	8.44E+02	5.39E+02	1.75E+02	6.24E+01	1.79E+01	8.05E+00	3.70E+00	1.92E+00	1.25E+00	1.10E+00
40.0	8.42E+02	1.15E+03	1.17E+03	7.24E+02	2.19E+02	7.35E+01	1.99E+01	8.67E+00	3.87E+00	1.97E+00	1.26E+00	1.11E+00
45.0	1.10E+03	1.54E+03	1.58E+03	9.43E+02	2.68E+02	8.50E+01	2.19E+01	9.27E+00	4.03E+00	2.01E+00	1.27E+00	1.11E+00
50.0	1.39E+03	1.99E+03	2.06E+03	1.20E+03	3.22E+02	9.70E+01	2.39E+01	9.84E+00	4.18E+00	2.04E+00	1.27E+00	1.11E+00
55.0	1.72E+03	2.52E+03	2.64E+03	1.49E+03	3.80E+02	1.09E+02	2.59E+01	1.04E+01	4.33E+00	2.08E+00	1.28E+00	1.11E+00
60.0	2.09E+03	3.13E+03	3.31E+03	1.83E+03	4.44E+02	1.22E+02	2.78E+01	1.10E+01	4.46E+00	2.11E+00	1.29E+00	1.12E+00
65.0	2.51E+03	3.83E+03	4.08E+03	2.21E+03	5.12E+02	1.36E+02	2.98E+01	1.15E+01	4.60E+00	2.14E+00	1.29E+00	1.12E+00
70.0	2.97E+03	4.61E+03	4.97E+03	2.63E+03	5.85E+02	1.50E+02	3.18E+01	1.20E+01	4.73E+00	2.17E+00	1.30E+00	1.12E+00
75.0	3.48E+03	5.49E+03	5.97E+03	3.10E+03	6.63E+02	1.64E+02	3.38E+01	1.26E+01	4.86E+00	2.20E+00	1.30E+00	1.12E+00
80.0	4.04E+03	6.47E+03	7.10E+03	3.62E+03	7.47E+02	1.79E+02	3.58E+01	1.31E+01	4.99E+00	2.22E+00	1.31E+00	1.12E+00
85.0	4.65E+03	7.56E+03	8.36E+03	4.18E+03	8.35E+02	1.94E+02	3.79E+01	1.36E+01	5.12E+00	2.25E+00	1.31E+00	1.13E+00
90.0	5.31E+03	8.75E+03	9.76E+03	4.81E+03	9.29E+02	2.10E+02	4.00E+01	1.42E+01	5.24E+00	2.28E+00	1.32E+00	1.13E+00
95.0	6.02E+03	1.01E+04	1.13E+04	5.48E+03	1.03E+03	2.26E+02	4.21E+01	1.47E+01	5.36E+00	2.30E+00	1.32E+00	1.13E+00
100.0	6.78E+03	1.15E+04	1.30E+04	6.22E+03	1.13E+03	2.43E+02	4.42E+01	1.53E+01	5.49E+00	2.33E+00	1.32E+00	1.13E+00

表 A.2　エネルギー吸収ビルドアップ係数(28)

[訂正前]

空気

	Energy (MeV)												
X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.21E+00	1.26E+00	1.28E+00	1.31E+00	1.33E+00	1.35E+00	1.38E+00	1.42E+00	1.47E+00	1.53E+00	1.57E+00	1.63E+00	1.68E+00
1.0	1.37E+00	1.47E+00	1.53E+00	1.60E+00	1.65E+00	1.71E+00	1.80E+00	1.92E+00	2.05E+00	2.22E+00	2.33E+00	2.51E+00	2.64E+00
2.0	1.63E+00	1.83E+00	1.94E+00	2.11E+00	2.24E+00	2.40E+00	2.64E+00	3.01E+00	3.41E+00	4.00E+00	4.39E+00	5.00E+00	5.44E+00
3.0	1.88E+00	2.17E+00	2.34E+00	2.60E+00	2.79E+00	3.06E+00	3.47E+00	4.18E+00	4.94E+00	6.19E+00	7.05E+00	8.42E+00	9.43E+00
4.0	2.12E+00	2.49E+00	2.72E+00	3.07E+00	3.34E+00	3.72E+00	4.32E+00	5.40E+00	6.60E+00	8.71E+00	1.02E+01	1.27E+01	1.46E+01
5.0	2.35E+00	2.81E+00	3.10E+00	3.54E+00	3.89E+00	4.39E+00	5.19E+00	6.69E+00	8.39E+00	1.15E+01	1.39E+01	1.78E+01	2.09E+01
6.0	2.57E+00	3.13E+00	3.47E+00	4.01E+00	4.44E+00	5.05E+00	6.08E+00	8.03E+00	1.03E+01	1.47E+01	1.81E+01	2.38E+01	2.85E+01
7.0	2.80E+00	3.44E+00	3.83E+00	4.47E+00	4.99E+00	5.72E+00	6.98E+00	9.42E+00	1.23E+01	1.81E+01	2.27E+01	3.07E+01	3.74E+01
8.0	3.02E+00	3.74E+00	4.20E+00	4.93E+00	5.53E+00	6.40E+00	7.88E+00	1.09E+01	1.44E+01	2.18E+01	2.78E+01	3.85E+01	4.75E+01
9.0	3.24E+00	4.05E+00	4.56E+00	5.39E+00	6.07E+00	7.07E+00	8.80E+00	1.23E+01	1.66E+01	2.58E+01	3.34E+01	4.72E+01	5.90E+01
10.0	3.46E+00	4.35E+00	4.91E+00	5.84E+00	6.61E+00	7.74E+00	9.73E+00	1.38E+01	1.89E+01	3.01E+01	3.95E+01	5.68E+01	7.20E+01
15.0	4.54E+00	5.82E+00	6.67E+00	8.08E+00	9.29E+00	1.11E+01	1.45E+01	2.18E+01	3.14E+01	5.50E+01	7.68E+01	1.19E+02	1.60E+02
20.0	5.61E+00	7.25E+00	8.37E+00	1.03E+01	1.19E+01	1.45E+01	1.93E+01	3.04E+01	4.54E+01	8.52E+01	1.25E+02	2.06E+02	2.88E+02
25.0	6.67E+00	8.66E+00	1.01E+01	1.24E+01	1.46E+01	1.79E+01	2.42E+01	3.94E+01	6.04E+01	1.20E+02	1.82E+02	3.16E+02	4.60E+02
30.0	7.72E+00	1.00E+01	1.17E+01	1.46E+01	1.71E+01	2.12E+01	2.92E+01	4.87E+01	7.63E+01	1.59E+02	2.49E+02	4.50E+02	6.76E+02
35.0	8.77E+00	1.14E+01	1.33E+01	1.67E+01	1.97E+01	2.46E+01	3.42E+01	5.83E+01	9.30E+01	2.02E+02	3.25E+02	6.08E+02	9.39E+02
40.0	9.82E+00	1.27E+01	1.49E+01	1.88E+01	2.23E+01	2.79E+01	3.93E+01	6.82E+01	1.10E+02	2.48E+02	4.09E+02	7.89E+02	1.25E+03
45.0	1.09E+01	1.41E+01	1.65E+01	2.08E+01	2.48E+01	3.13E+01	4.44E+01	7.84E+01	1.29E+02	2.97E+02	5.02E+02	9.94E+02	1.61E+03
50.0	1.19E+01	1.54E+01	1.81E+01	2.29E+01	2.74E+01	3.47E+01	4.96E+01	8.87E+01	1.47E+02	3.50E+02	6.02E+02	1.22E+03	2.02E+03
55.0	1.30E+01	1.67E+01	1.97E+01	2.50E+01	2.99E+01	3.81E+01	5.48E+01	9.93E+01	1.66E+02	4.06E+02	7.11E+02	1.47E+03	2.48E+03
60.0	1.40E+01	1.81E+01	2.13E+01	2.71E+01	3.25E+01	4.15E+01	6.01E+01	1.10E+02	1.86E+02	4.65E+02	8.27E+02	1.75E+03	2.99E+03
65.0	1.51E+01	1.94E+01	2.29E+01	2.92E+01	3.51E+01	4.49E+01	6.54E+01	1.21E+02	2.06E+02	5.27E+02	9.51E+02	2.05E+03	3.55E+03
70.0	1.62E+01	2.07E+01	2.45E+01	3.13E+01	3.77E+01	4.84E+01	7.08E+01	1.32E+02	2.26E+02	5.93E+02	1.08E+03	2.37E+03	4.17E+03
75.0	1.72E+01	2.20E+01	2.61E+01	3.34E+01	4.03E+01	5.19E+01	7.63E+01	1.43E+02	2.47E+02	6.61E+02	1.22E+03	2.72E+03	4.84E+03
80.0	1.83E+01	2.33E+01	2.78E+01	3.55E+01	4.29E+01	5.54E+01	8.18E+01	1.55E+02	2.68E+02	7.32E+02	1.37E+03	3.09E+03	5.57E+03
85.0	1.94E+01	2.47E+01	2.94E+01	3.77E+01	4.56E+01	5.90E+01	8.75E+01	1.67E+02	2.90E+02	8.06E+02	1.53E+03	3.48E+03	6.35E+03
90.0	2.05E+01	2.60E+01	3.11E+01	3.99E+01	4.84E+01	6.27E+01	9.32E+01	1.78E+02	3.12E+02	8.83E+02	1.69E+03	3.90E+03	7.20E+03
95.0	2.16E+01	2.74E+01	3.28E+01	4.21E+01	5.11E+01	6.64E+01	9.90E+01	1.90E+02	3.34E+02	9.63E+02	1.86E+03	4.35E+03	8.11E+03
100.0	2.27E+01	2.87E+01	3.45E+01	4.43E+01	5.40E+01	7.02E+01	1.05E+02	2.03E+02	3.57E+02	1.05E+03	2.04E+03	4.83E+03	9.08E+03

	Energy (MeV)											
X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.74E+00	1.84E+00	2.01E+00	2.16E+00	2.40E+00	2.50E+00	2.46E+00	2.28E+00	1.97E+00	1.57E+00	1.20E+00	1.08E+00
1.0	2.82E+00	3.09E+00	3.55E+00	3.95E+00	4.53E+00	4.68E+00	4.33E+00	3.76E+00	2.92E+00	2.01E+00	1.33E+00	1.12E+00
2.0	6.07E+00	7.01E+00	8.55E+00	9.83E+00	1.13E+01	1.12E+01	9.30E+00	7.26E+00	4.86E+00	2.75E+00	1.51E+00	1.19E+00
3.0	1.09E+01	1.31E+01	1.66E+01	1.94E+01	2.17E+01	2.08E+01	1.58E+01	1.14E+01	6.86E+00	3.39E+00	1.65E+00	1.24E+00
4.0	1.74E+01	2.16E+01	2.84E+01	3.34E+01	3.66E+01	3.37E+01	2.39E+01	1.62E+01	8.93E+00	3.98E+00	1.77E+00	1.28E+00
5.0	2.56E+01	3.27E+01	4.43E+01	5.25E+01	5.65E+01	5.04E+01	3.35E+01	2.15E+01	1.11E+01	4.52E+00	1.87E+00	1.31E+00
6.0	3.56E+01	4.68E+01	6.51E+01	7.78E+01	8.21E+01	7.12E+01	4.48E+01	2.75E+01	1.32E+01	5.05E+00	1.96E+00	1.34E+00
7.0	4.75E+01	6.41E+01	9.15E+01	1.10E+02	1.14E+02	9.66E+01	5.78E+01	3.40E+01	1.55E+01	5.55E+00	2.04E+00	1.37E+00
8.0	6.16E+01	8.48E+01	1.24E+02	1.50E+02	1.54E+02	1.27E+02	7.27E+01	4.12E+01	1.78E+01	6.04E+00	2.11E+00	1.39E+00
9.0	7.78E+01	1.09E+02	1.64E+02	1.99E+02	2.01E+02	1.63E+02	8.94E+01	4.89E+01	2.02E+01	6.52E+00	2.18E+00	1.41E+00
10.0	9.64E+01	1.38E+02	2.11E+02	2.59E+02	2.58E+02	2.05E+02	1.08E+02	5.73E+01	2.27E+01	6.98E+00	2.25E+00	1.43E+00
15.0	2.29E+02	3.56E+02	5.96E+02	7.56E+02	7.23E+02	5.27E+02	2.38E+02	1.10E+02	3.63E+01	9.24E+00	2.52E+00	1.51E+00
20.0	4.36E+02	7.32E+02	1.33E+03	1.74E+03	1.62E+03	1.11E+03	4.41E+02	1.82E+02	5.20E+01	1.14E+01	2.75E+00	1.57E+00
25.0	7.31E+02	1.31E+03	2.57E+03	3.48E+03	3.18E+03	2.06E+03	7.36E+02	2.76E+02	6.96E+01	1.35E+01	2.94E+00	1.62E+00
30.0	1.12E+03	2.13E+03	4.50E+03	6.32E+03	5.71E+03	3.52E+03	1.15E+03	3.94E+02	8.92E+01	1.56E+01	3.11E+00	1.66E+00
35.0	1.62E+03	3.24E+03	7.32E+03	1.07E+04	9.59E+03	5.67E+03	1.70E+03	5.38E+02	1.11E+02	1.76E+01	3.26E+00	1.70E+00
40.0	2.23E+03	4.68E+03	1.13E+04	1.70E+04	1.53E+04	8.69E+03	2.41E+03	7.11E+02	1.34E+02	1.96E+01	3.40E+00	1.73E+00
45.0	2.96E+03	6.49E+03	1.66E+04	2.59E+04	2.34E+04	1.28E+04	3.32E+03	9.14E+02	1.59E+02	2.16E+01	3.53E+00	1.76E+00
50.0	3.81E+03	8.71E+03	2.36E+04	3.81E+04	3.45E+04	1.83E+04	4.44E+03	1.15E+03	1.86E+02	2.36E+01	3.65E+00	1.78E+00
55.0	4.79E+03	1.14E+04	3.25E+04	5.42E+04	4.94E+04	2.55E+04	5.82E+03	1.42E+03	2.15E+02	2.56E+01	3.76E+00	1.81E+00
60.0	5.92E+03	1.46E+04	4.37E+04	7.53E+04	6.92E+04	3.47E+04	7.48E+03	1.73E+03	2.45E+02	2.76E+01	3.87E+00	1.83E+00
65.0	7.18E+03	1.83E+04	5.75E+04	1.02E+05	9.47E+04	4.63E+04	9.47E+03	2.08E+03	2.78E+02	2.96E+01	3.97E+00	1.85E+00
70.0	8.60E+03	2.25E+04	7.42E+04	1.36E+05	1.27E+05	6.07E+04	1.18E+04	2.47E+03	3.12E+02	3.17E+01	4.07E+00	1.87E+00
75.0	1.02E+04	2.74E+04	9.42E+04	1.77E+05	1.68E+05	7.83E+04	1.45E+04	2.90E+03	3.48E+02	3.38E+01	4.17E+00	1.89E+00
80.0	1.19E+04	3.30E+04	1.18E+05	2.28E+05	2.19E+05	9.97E+04	1.77E+04	3.39E+03	3.87E+02	3.59E+01	4.26E+00	1.90E+00
85.0	1.38E+04	3.92E+04	1.46E+05	2.90E+05	2.81E+05	1.26E+05	2.14E+04	3.92E+03	4.27E+02	3.80E+01	4.35E+00	1.92E+00
90.0	1.59E+04	4.63E+04	1.78E+05	3.63E+05	3.57E+05	1.56E+05	2.56E+04	4.50E+03	4.70E+02	4.02E+01	4.44E+00	1.94E+00
95.0	1.82E+04	5.40E+04	2.15E+05	4.50E+05	4.48E+05	1.93E+05	3.03E+04	5.14E+03	5.14E+02	4.24E+01	4.53E+00	1.95E+00
100.0	2.06E+04	6.27E+04	2.58E+05	5.52E+05	5.57E+05	2.35E+05	3.57E+04	5.84E+03	5.62E+02	4.47E+01	4.61E+00	1.97E+00

表 A.2　　エネルギー吸収ビルドアップ係数(26)　　*[訂正後]*

水

	Energy (MeV)												
X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.21E+00	1.24E+00	1.26E+00	1.29E+00	1.31E+00	1.33E+00	1.35E+00	1.39E+00	1.42E+00	1.47E+00	1.51E+00	1.57E+00	1.61E+00
1.0	1.38E+00	1.45E+00	1.49E+00	1.56E+00	1.60E+00	1.66E+00	1.73E+00	1.84E+00	1.93E+00	2.08E+00	2.18E+00	2.33E+00	2.44E+00
2.0	1.65E+00	1.79E+00	1.90E+00	2.04E+00	2.15E+00	2.29E+00	2.49E+00	2.83E+00	3.12E+00	3.61E+00	3.95E+00	4.46E+00	4.84E+00
3.0	1.91E+00	2.12E+00	2.27E+00	2.51E+00	2.68E+00	2.91E+00	3.26E+00	3.88E+00	4.47E+00	5.49E+00	6.22E+00	7.36E+00	8.22E+00
4.0	2.15E+00	2.44E+00	2.64E+00	2.96E+00	3.20E+00	3.53E+00	4.05E+00	5.00E+00	5.93E+00	7.65E+00	8.92E+00	1.10E+01	1.26E+01
5.0	2.39E+00	2.74E+00	3.00E+00	3.41E+00	3.71E+00	4.15E+00	4.85E+00	6.16E+00	7.50E+00	1.01E+01	1.21E+01	1.53E+01	1.80E+01
6.0	2.63E+00	3.04E+00	3.36E+00	3.85E+00	4.23E+00	4.78E+00	5.66E+00	7.38E+00	9.17E+00	1.28E+01	1.56E+01	2.04E+01	2.44E+01
7.0	2.85E+00	3.34E+00	3.70E+00	4.29E+00	4.74E+00	5.40E+00	6.49E+00	8.65E+00	1.09E+01	1.57E+01	1.95E+01	2.62E+01	3.18E+01
8.0	3.08E+00	3.63E+00	4.05E+00	4.72E+00	5.25E+00	6.03E+00	7.32E+00	9.95E+00	1.28E+01	1.89E+01	2.39E+01	3.28E+01	4.04E+01
9.0	3.30E+00	3.92E+00	4.39E+00	5.15E+00	5.75E+00	6.65E+00	8.16E+00	1.13E+01	1.47E+01	2.23E+01	2.86E+01	4.01E+01	5.01E+01
10.0	3.52E+00	4.21E+00	4.73E+00	5.58E+00	6.26E+00	7.28E+00	9.02E+00	1.27E+01	1.67E+01	2.59E+01	3.38E+01	4.82E+01	6.10E+01
15.0	4.60E+00	5.59E+00	6.37E+00	7.68E+00	8.74E+00	1.04E+01	1.34E+01	1.99E+01	2.77E+01	4.71E+01	6.51E+01	1.01E+02	1.35E+02
20.0	5.65E+00	6.94E+00	7.96E+00	9.72E+00	1.12E+01	1.35E+01	1.78E+01	2.76E+01	4.00E+01	7.27E+01	1.05E+02	1.74E+02	2.42E+02
25.0	6.67E+00	8.24E+00	9.51E+00	1.17E+01	1.36E+01	1.66E+01	2.23E+01	3.57E+01	5.32E+01	1.02E+02	1.54E+02	2.67E+02	3.86E+02
30.0	7.68E+00	9.52E+00	1.10E+01	1.37E+01	1.60E+01	1.97E+01	2.68E+01	4.42E+01	6.73E+01	1.35E+02	2.10E+02	3.80E+02	5.68E+02
35.0	8.68E+00	1.08E+01	1.25E+01	1.56E+01	1.83E+01	2.28E+01	3.14E+01	5.29E+01	8.22E+01	1.71E+02	2.73E+02	5.14E+02	7.88E+02
40.0	9.67E+00	1.20E+01	1.40E+01	1.76E+01	2.07E+01	2.59E+01	3.61E+01	6.18E+01	9.77E+01	2.11E+02	3.43E+02	6.67E+02	1.05E+03
45.0	1.07E+01	1.33E+01	1.55E+01	1.95E+01	2.30E+01	2.89E+01	4.07E+01	7.09E+01	1.14E+02	2.53E+02	4.20E+02	8.40E+02	1.35E+03
50.0	1.16E+01	1.45E+01	1.69E+01	2.14E+01	2.53E+01	3.20E+01	4.55E+01	8.02E+01	1.31E+02	2.97E+02	5.04E+02	1.03E+03	1.69E+03
55.0	1.26E+01	1.57E+01	1.84E+01	2.33E+01	2.77E+01	3.51E+01	5.02E+01	8.97E+01	1.48E+02	3.45E+02	5.94E+02	1.25E+03	2.08E+03
60.0	1.36E+01	1.69E+01	1.98E+01	2.52E+01	3.00E+01	3.82E+01	5.50E+01	9.94E+01	1.66E+02	3.95E+02	6.91E+02	1.48E+03	2.50E+03
65.0	1.46E+01	1.81E+01	2.13E+01	2.71E+01	3.23E+01	4.14E+01	5.99E+01	1.09E+02	1.84E+02	4.48E+02	7.94E+02	1.73E+03	2.98E+03
70.0	1.56E+01	1.94E+01	2.28E+01	2.91E+01	3.47E+01	4.45E+01	6.48E+01	1.19E+02	2.03E+02	5.03E+02	9.04E+02	2.01E+03	3.49E+03
75.0	1.66E+01	2.06E+01	2.42E+01	3.10E+01	3.71E+01	4.77E+01	6.98E+01	1.29E+02	2.23E+02	5.61E+02	1.02E+03	2.30E+03	4.06E+03
80.0	1.75E+01	2.18E+01	2.57E+01	3.30E+01	3.95E+01	5.10E+01	7.48E+01	1.40E+02	2.43E+02	6.21E+02	1.14E+03	2.62E+03	4.67E+03
85.0	1.85E+01	2.31E+01	2.72E+01	3.50E+01	4.20E+01	5.42E+01	8.00E+01	1.50E+02	2.64E+02	6.84E+02	1.27E+03	2.95E+03	5.33E+03
90.0	1.95E+01	2.43E+01	2.87E+01	3.70E+01	4.45E+01	5.76E+01	8.52E+01	1.61E+02	2.85E+02	7.49E+02	1.41E+03	3.31E+03	6.04E+03
95.0	2.06E+01	2.56E+01	3.03E+01	3.90E+01	4.70E+01	6.10E+01	9.05E+01	1.72E+02	3.07E+02	8.17E+02	1.55E+03	3.69E+03	6.80E+03
100.0	2.16E+01	2.69E+01	3.18E+01	4.11E+01	4.96E+01	6.45E+01	9.59E+01	1.83E+02	3.29E+02	8.88E+02	1.70E+03	4.10E+03	7.61E+03

	Energy (MeV)											
X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.66E+00	1.75E+00	1.90E+00	2.06E+00	2.35E+00	2.53E+00	2.62E+00	2.51E+00	2.18E+00	1.69E+00	1.25E+00	1.11E+00
1.0	2.59E+00	2.83E+00	3.27E+00	3.69E+00	4.48E+00	4.88E+00	4.87E+00	4.37E+00	3.41E+00	2.25E+00	1.41E+00	1.17E+00
2.0	5.37E+00	6.19E+00	7.72E+00	9.15E+00	1.15E+01	1.23E+01	1.12E+01	9.06E+00	6.02E+00	3.20E+00	1.64E+00	1.26E+00
3.0	9.46E+00	1.14E+01	1.50E+01	1.82E+01	2.28E+01	2.36E+01	1.98E+01	1.49E+01	8.81E+00	4.04E+00	1.81E+00	1.32E+00
4.0	1.49E+01	1.87E+01	2.57E+01	3.18E+01	3.93E+01	3.95E+01	3.09E+01	2.17E+01	1.17E+01	4.81E+00	1.95E+00	1.36E+00
5.0	2.19E+01	2.84E+01	4.04E+01	5.07E+01	6.19E+01	6.04E+01	4.44E+01	2.96E+01	1.48E+01	5.53E+00	2.07E+00	1.40E+00
6.0	3.04E+01	4.06E+01	5.98E+01	7.58E+01	9.14E+01	8.69E+01	6.05E+01	3.84E+01	1.80E+01	6.22E+00	2.18E+00	1.44E+00
7.0	4.06E+01	5.56E+01	8.44E+01	1.08E+02	1.29E+02	1.20E+02	7.94E+01	4.82E+01	2.13E+01	6.89E+00	2.28E+00	1.47E+00
8.0	5.25E+01	7.37E+01	1.15E+02	1.49E+02	1.76E+02	1.60E+02	1.01E+02	5.91E+01	2.48E+01	7.54E+00	2.36E+00	1.50E+00
9.0	6.62E+01	9.52E+01	1.52E+02	1.99E+02	2.32E+02	2.07E+02	1.26E+02	7.11E+01	2.84E+01	8.18E+00	2.45E+00	1.52E+00
10.0	8.20E+01	1.20E+02	1.97E+02	2.60E+02	3.01E+02	2.63E+02	1.54E+02	8.41E+01	3.21E+01	8.81E+00	2.53E+00	1.54E+00
15.0	1.94E+02	3.11E+02	5.67E+02	7.79E+02	8.73E+02	7.07E+02	3.54E+02	1.68E+02	5.31E+01	1.19E+01	2.86E+00	1.63E+00
20.0	3.69E+02	6.41E+02	1.28E+03	1.83E+03	2.01E+03	1.53E+03	6.77E+02	2.87E+02	7.78E+01	1.49E+01	3.13E+00	1.70E+00
25.0	6.18E+02	1.15E+03	2.49E+03	3.71E+03	4.03E+03	2.92E+03	1.16E+03	4.46E+02	1.06E+02	1.78E+01	3.37E+00	1.76E+00
30.0	9.48E+02	1.88E+03	4.39E+03	6.80E+03	7.37E+03	5.12E+03	1.86E+03	6.52E+02	1.39E+02	2.08E+01	3.57E+00	1.81E+00
35.0	1.37E+03	2.86E+03	7.20E+03	1.16E+04	1.26E+04	8.40E+03	2.81E+03	9.10E+02	1.75E+02	2.37E+01	3.76E+00	1.85E+00
40.0	1.88E+03	4.13E+03	1.12E+04	1.87E+04	2.03E+04	1.31E+04	4.07E+03	1.23E+03	2.15E+02	2.66E+01	3.93E+00	1.88E+00
45.0	2.49E+03	5.74E+03	1.65E+04	2.87E+04	3.15E+04	1.97E+04	5.71E+03	1.61E+03	2.58E+02	2.95E+01	4.09E+00	1.92E+00
50.0	3.21E+03	7.72E+03	2.36E+04	4.25E+04	4.71E+04	2.86E+04	7.78E+03	2.05E+03	3.05E+02	3.25E+01	4.25E+00	1.95E+00
55.0	4.04E+03	1.01E+04	3.26E+04	6.09E+04	6.83E+04	4.05E+04	1.04E+04	2.58E+03	3.56E+02	3.54E+01	4.39E+00	1.97E+00
60.0	4.98E+03	1.29E+04	4.40E+04	8.51E+04	9.65E+04	5.59E+04	1.35E+04	3.18E+03	4.11E+02	3.84E+01	4.52E+00	2.00E+00
65.0	6.04E+03	1.62E+04	5.80E+04	1.16E+05	1.33E+05	7.55E+04	1.74E+04	3.87E+03	4.70E+02	4.15E+01	4.65E+00	2.02E+00
70.0	7.23E+03	2.00E+04	7.51E+04	1.55E+05	1.81E+05	1.00E+05	2.20E+04	4.65E+03	5.33E+02	4.46E+01	4.78E+00	2.04E+00
75.0	8.56E+03	2.44E+04	9.56E+04	2.04E+05	2.41E+05	1.31E+05	2.74E+04	5.54E+03	6.00E+02	4.77E+01	4.90E+00	2.07E+00
80.0	1.00E+04	2.94E+04	1.20E+05	2.64E+05	3.17E+05	1.69E+05	3.38E+04	6.53E+03	6.71E+02	5.09E+01	5.02E+00	2.09E+00
85.0	1.16E+04	3.50E+04	1.49E+05	3.36E+05	4.10E+05	2.15E+05	4.13E+04	7.63E+03	7.46E+02	5.42E+01	5.14E+00	2.10E+00
90.0	1.34E+04	4.12E+04	1.82E+05	4.23E+05	5.25E+05	2.71E+05	5.00E+04	8.86E+03	8.26E+02	5.75E+01	5.25E+00	2.12E+00
95.0	1.53E+04	4.82E+04	2.20E+05	5.27E+05	6.64E+05	3.37E+05	5.99E+04	1.02E+04	9.11E+02	6.09E+01	5.36E+00	2.14E+00
100.0	1.73E+04	5.59E+04	2.64E+05	6.49E+05	8.32E+05	4.16E+05	7.13E+04	1.17E+04	1.00E+03	6.44E+01	5.47E+00	2.16E+00

表 A.2　　エネルギー吸収ビルドアップ係数(27)　　*[訂正後]*

コンクリート

	Energy (MeV)												
X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.22E+00	1.24E+00	1.26E+00	1.29E+00	1.31E+00	1.33E+00	1.36E+00	1.39E+00	1.43E+00	1.48E+00	1.52E+00	1.58E+00	1.63E+00
1.0	1.38E+00	1.44E+00	1.48E+00	1.55E+00	1.59E+00	1.65E+00	1.73E+00	1.84E+00	1.92E+00	2.07E+00	2.18E+00	2.34E+00	2.46E+00
2.0	1.66E+00	1.78E+00	1.87E+00	2.02E+00	2.12E+00	2.27E+00	2.47E+00	2.78E+00	3.04E+00	3.49E+00	3.80E+00	4.26E+00	4.61E+00
3.0	1.92E+00	2.10E+00	2.24E+00	2.47E+00	2.64E+00	2.88E+00	3.22E+00	3.80E+00	4.29E+00	5.16E+00	5.77E+00	6.69E+00	7.36E+00
4.0	2.19E+00	2.42E+00	2.61E+00	2.93E+00	3.16E+00	3.50E+00	4.00E+00	4.87E+00	5.66E+00	7.08E+00	8.08E+00	9.61E+00	1.07E+01
5.0	2.45E+00	2.74E+00	2.99E+00	3.39E+00	3.69E+00	4.13E+00	4.80E+00	6.01E+00	7.13E+00	9.22E+00	1.07E+01	1.30E+01	1.47E+01
6.0	2.71E+00	3.06E+00	3.36E+00	3.85E+00	4.22E+00	4.76E+00	5.62E+00	7.20E+00	8.71E+00	1.16E+01	1.37E+01	1.70E+01	1.94E+01
7.0	2.97E+00	3.39E+00	3.73E+00	4.31E+00	4.75E+00	5.41E+00	6.46E+00	8.43E+00	1.04E+01	1.42E+01	1.70E+01	2.15E+01	2.48E+01
8.0	3.24E+00	3.71E+00	4.11E+00	4.77E+00	5.29E+00	6.06E+00	7.31E+00	9.71E+00	1.21E+01	1.70E+01	2.07E+01	2.65E+01	3.09E+01
9.0	3.51E+00	4.04E+00	4.49E+00	5.24E+00	5.83E+00	6.72E+00	8.17E+00	1.10E+01	1.39E+01	2.00E+01	2.46E+01	3.21E+01	3.77E+01
10.0	3.79E+00	4.37E+00	4.87E+00	5.71E+00	6.37E+00	7.38E+00	9.05E+00	1.24E+01	1.58E+01	2.32E+01	2.89E+01	3.82E+01	4.53E+01
15.0	5.22E+00	6.05E+00	6.79E+00	8.08E+00	9.12E+00	1.07E+01	1.36E+01	1.95E+01	2.61E+01	4.17E+01	5.47E+01	7.73E+01	9.51E+01
20.0	6.74E+00	7.78E+00	8.76E+00	1.05E+01	1.19E+01	1.42E+01	1.83E+01	2.72E+01	3.77E+01	6.40E+01	8.75E+01	1.30E+02	1.66E+02
25.0	8.36E+00	9.56E+00	1.08E+01	1.29E+01	1.47E+01	1.76E+01	2.31E+01	3.54E+01	5.01E+01	8.97E+01	1.27E+02	1.97E+02	2.58E+02
30.0	1.01E+01	1.14E+01	1.28E+01	1.53E+01	1.75E+01	2.11E+01	2.80E+01	4.39E+01	6.34E+01	1.18E+02	1.72E+02	2.77E+02	3.72E+02
35.0	1.19E+01	1.32E+01	1.48E+01	1.78E+01	2.03E+01	2.47E+01	3.30E+01	5.26E+01	7.73E+01	1.50E+02	2.23E+02	3.71E+02	5.08E+02
40.0	1.37E+01	1.51E+01	1.69E+01	2.02E+01	2.32E+01	2.82E+01	3.80E+01	6.16E+01	9.18E+01	1.84E+02	2.79E+02	4.78E+02	6.68E+02
45.0	1.57E+01	1.70E+01	1.90E+01	2.27E+01	2.60E+01	3.18E+01	4.31E+01	7.09E+01	1.07E+02	2.20E+02	3.40E+02	5.98E+02	8.50E+02
50.0	1.77E+01	1.90E+01	2.11E+01	2.52E+01	2.89E+01	3.53E+01	4.82E+01	8.03E+01	1.22E+02	2.58E+02	4.07E+02	7.32E+02	1.06E+03
55.0	1.98E+01	2.09E+01	2.32E+01	2.77E+01	3.17E+01	3.89E+01	5.34E+01	8.99E+01	1.38E+02	2.99E+02	4.78E+02	8.79E+02	1.29E+03
60.0	2.20E+01	2.29E+01	2.53E+01	3.02E+01	3.46E+01	4.26E+01	5.87E+01	9.97E+01	1.55E+02	3.42E+02	5.54E+02	1.04E+03	1.54E+03
65.0	2.42E+01	2.49E+01	2.74E+01	3.27E+01	3.75E+01	4.62E+01	6.40E+01	1.10E+02	1.71E+02	3.87E+02	6.36E+02	1.21E+03	1.82E+03
70.0	2.65E+01	2.70E+01	2.96E+01	3.52E+01	4.04E+01	4.99E+01	6.94E+01	1.20E+02	1.89E+02	4.34E+02	7.22E+02	1.40E+03	2.13E+03
75.0	2.89E+01	2.90E+01	3.18E+01	3.78E+01	4.33E+01	5.36E+01	7.48E+01	1.30E+02	2.06E+02	4.84E+02	8.12E+02	1.60E+03	2.46E+03
80.0	3.14E+01	3.12E+01	3.40E+01	4.03E+01	4.63E+01	5.73E+01	8.03E+01	1.41E+02	2.24E+02	5.35E+02	9.08E+02	1.81E+03	2.82E+03
85.0	3.39E+01	3.33E+01	3.63E+01	4.29E+01	4.93E+01	6.11E+01	8.58E+01	1.51E+02	2.42E+02	5.88E+02	1.01E+03	2.04E+03	3.20E+03
90.0	3.65E+01	3.54E+01	3.85E+01	4.56E+01	5.23E+01	6.49E+01	9.14E+01	1.62E+02	2.60E+02	6.43E+02	1.11E+03	2.28E+03	3.61E+03
95.0	3.92E+01	3.76E+01	4.08E+01	4.82E+01	5.54E+01	6.88E+01	9.71E+01	1.73E+02	2.79E+02	7.01E+02	1.22E+03	2.54E+03	4.05E+03
100.0	4.19E+01	3.99E+01	4.32E+01	5.09E+01	5.85E+01	7.27E+01	1.03E+02	1.84E+02	2.98E+02	7.60E+02	1.34E+03	2.80E+03	4.52E+03

	Energy (MeV)											
X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.70E+00	1.81E+00	2.02E+00	2.20E+00	2.28E+00	2.11E+00	1.73E+00	1.50E+00	1.29E+00	1.13E+00	1.04E+00	1.02E+00
1.0	2.63E+00	2.90E+00	3.37E+00	3.70E+00	3.64E+00	3.14E+00	2.28E+00	1.83E+00	1.46E+00	1.21E+00	1.06E+00	1.03E+00
2.0	5.08E+00	5.79E+00	6.87E+00	7.39E+00	6.51E+00	5.06E+00	3.17E+00	2.32E+00	1.69E+00	1.30E+00	1.09E+00	1.04E+00
3.0	8.28E+00	9.59E+00	1.14E+01	1.19E+01	9.57E+00	6.89E+00	3.91E+00	2.70E+00	1.86E+00	1.36E+00	1.11E+00	1.05E+00
4.0	1.22E+01	1.43E+01	1.69E+01	1.72E+01	1.29E+01	8.71E+00	4.59E+00	3.03E+00	2.00E+00	1.41E+00	1.13E+00	1.05E+00
5.0	1.70E+01	2.01E+01	2.35E+01	2.33E+01	1.64E+01	1.05E+01	5.23E+00	3.33E+00	2.12E+00	1.46E+00	1.14E+00	1.06E+00
6.0	2.26E+01	2.70E+01	3.13E+01	3.04E+01	2.02E+01	1.24E+01	5.84E+00	3.60E+00	2.23E+00	1.49E+00	1.15E+00	1.06E+00
7.0	2.92E+01	3.50E+01	4.04E+01	3.83E+01	2.43E+01	1.43E+01	6.44E+00	3.86E+00	2.33E+00	1.53E+00	1.16E+00	1.07E+00
8.0	3.67E+01	4.43E+01	5.09E+01	4.73E+01	2.87E+01	1.63E+01	7.02E+00	4.10E+00	2.42E+00	1.56E+00	1.16E+00	1.07E+00
9.0	4.52E+01	5.50E+01	6.29E+01	5.74E+01	3.33E+01	1.83E+01	7.59E+00	4.34E+00	2.50E+00	1.58E+00	1.17E+00	1.07E+00
10.0	5.48E+01	6.71E+01	7.65E+01	6.86E+01	3.83E+01	2.03E+01	8.15E+00	4.56E+00	2.58E+00	1.61E+00	1.18E+00	1.08E+00
15.0	1.20E+02	1.52E+02	1.71E+02	1.43E+02	6.78E+01	3.12E+01	1.09E+01	5.58E+00	2.93E+00	1.71E+00	1.20E+00	1.09E+00
20.0	2.16E+02	2.84E+02	3.20E+02	2.50E+02	1.05E+02	4.31E+01	1.34E+01	6.48E+00	3.20E+00	1.79E+00	1.22E+00	1.09E+00
25.0	3.47E+02	4.72E+02	5.33E+02	3.97E+02	1.49E+02	5.59E+01	1.59E+01	7.29E+00	3.44E+00	1.85E+00	1.23E+00	1.10E+00
30.0	5.16E+02	7.22E+02	8.22E+02	5.85E+02	2.01E+02	6.94E+01	1.83E+01	8.03E+00	3.65E+00	1.91E+00	1.25E+00	1.11E+00
35.0	7.24E+02	1.04E+03	1.20E+03	8.20E+02	2.59E+02	8.36E+01	2.07E+01	8.74E+00	3.84E+00	1.95E+00	1.26E+00	1.11E+00
40.0	9.74E+02	1.44E+03	1.67E+03	1.10E+03	3.25E+02	9.84E+01	2.30E+01	9.40E+00	4.02E+00	2.00E+00	1.27E+00	1.11E+00
45.0	1.27E+03	1.92E+03	2.25E+03	1.44E+03	3.98E+02	1.14E+02	2.53E+01	1.00E+01	4.18E+00	2.04E+00	1.27E+00	1.12E+00
50.0	1.61E+03	2.49E+03	2.95E+03	1.84E+03	4.79E+02	1.30E+02	2.76E+01	1.07E+01	4.34E+00	2.07E+00	1.28E+00	1.12E+00
55.0	1.99E+03	3.16E+03	3.78E+03	2.29E+03	5.66E+02	1.47E+02	2.99E+01	1.13E+01	4.49E+00	2.11E+00	1.29E+00	1.12E+00
60.0	2.43E+03	3.93E+03	4.75E+03	2.81E+03	6.61E+02	1.64E+02	3.21E+01	1.19E+01	4.63E+00	2.14E+00	1.29E+00	1.12E+00
65.0	2.92E+03	4.81E+03	5.86E+03	3.39E+03	7.63E+02	1.82E+02	3.44E+01	1.25E+01	4.77E+00	2.17E+00	1.30E+00	1.13E+00
70.0	3.46E+03	5.80E+03	7.14E+03	4.04E+03	8.73E+02	2.01E+02	3.67E+01	1.30E+01	4.91E+00	2.20E+00	1.30E+00	1.13E+00
75.0	4.05E+03	6.92E+03	8.59E+03	4.77E+03	9.90E+02	2.20E+02	3.90E+01	1.36E+01	5.04E+00	2.23E+00	1.31E+00	1.13E+00
80.0	4.70E+03	8.16E+03	1.02E+04	5.57E+03	1.12E+03	2.40E+02	4.13E+01	1.42E+01	5.18E+00	2.26E+00	1.31E+00	1.13E+00
85.0	5.41E+03	9.53E+03	1.21E+04	6.46E+03	1.25E+03	2.60E+02	4.37E+01	1.48E+01	5.31E+00	2.28E+00	1.32E+00	1.13E+00
90.0	6.17E+03	1.10E+04	1.41E+04	7.42E+03	1.39E+03	2.82E+02	4.61E+01	1.54E+01	5.44E+00	2.31E+00	1.32E+00	1.13E+00
95.0	7.00E+03	1.27E+04	1.63E+04	8.47E+03	1.54E+03	3.04E+02	4.85E+01	1.59E+01	5.56E+00	2.34E+00	1.33E+00	1.14E+00
100.0	7.90E+03	1.45E+04	1.88E+04	9.61E+03	1.70E+03	3.27E+02	5.10E+01	1.65E+01	5.69E+00	2.36E+00	1.33E+00	1.14E+00

表 A.2　　エネルギー吸収ビルドアップ係数(28)　　*[訂正後]*

空気

	Energy (MeV)												
X (mfp)	15.0	10.0	8.0	6.0	5.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.5
0.5	1.21E+00	1.24E+00	1.26E+00	1.29E+00	1.30E+00	1.32E+00	1.35E+00	1.39E+00	1.42E+00	1.47E+00	1.51E+00	1.57E+00	1.61E+00
1.0	1.37E+00	1.44E+00	1.49E+00	1.55E+00	1.60E+00	1.66E+00	1.73E+00	1.84E+00	1.93E+00	2.08E+00	2.18E+00	2.33E+00	2.44E+00
2.0	1.63E+00	1.78E+00	1.88E+00	2.04E+00	2.14E+00	2.29E+00	2.49E+00	2.83E+00	3.11E+00	3.61E+00	3.95E+00	4.46E+00	4.84E+00
3.0	1.89E+00	2.10E+00	2.26E+00	2.50E+00	2.67E+00	2.91E+00	3.26E+00	3.88E+00	4.44E+00	5.48E+00	6.21E+00	7.35E+00	8.21E+00
4.0	2.13E+00	2.41E+00	2.62E+00	2.95E+00	3.19E+00	3.53E+00	4.05E+00	5.00E+00	5.89E+00	7.64E+00	8.91E+00	1.10E+01	1.26E+01
5.0	2.37E+00	2.72E+00	2.98E+00	3.40E+00	3.71E+00	4.15E+00	4.85E+00	6.17E+00	7.44E+00	1.01E+01	1.20E+01	1.53E+01	1.79E+01
6.0	2.60E+00	3.02E+00	3.34E+00	3.84E+00	4.22E+00	4.77E+00	5.66E+00	7.39E+00	9.10E+00	1.27E+01	1.55E+01	2.03E+01	2.42E+01
7.0	2.83E+00	3.32E+00	3.69E+00	4.28E+00	4.74E+00	5.40E+00	6.49E+00	8.65E+00	1.09E+01	1.57E+01	1.95E+01	2.60E+01	3.16E+01
8.0	3.06E+00	3.61E+00	4.04E+00	4.72E+00	5.25E+00	6.03E+00	7.33E+00	9.96E+00	1.27E+01	1.88E+01	2.38E+01	3.25E+01	4.00E+01
9.0	3.28E+00	3.90E+00	4.38E+00	5.15E+00	5.76E+00	6.66E+00	8.18E+00	1.13E+01	1.46E+01	2.22E+01	2.85E+01	3.97E+01	4.96E+01
10.0	3.51E+00	4.19E+00	4.72E+00	5.58E+00	6.27E+00	7.30E+00	9.03E+00	1.27E+01	1.66E+01	2.58E+01	3.36E+01	4.77E+01	6.04E+01
15.0	4.61E+00	5.61E+00	6.40E+00	7.72E+00	8.80E+00	1.05E+01	1.34E+01	1.99E+01	2.74E+01	4.69E+01	6.49E+01	9.95E+01	1.33E+02
20.0	5.71E+00	6.99E+00	8.03E+00	9.80E+00	1.13E+01	1.36E+01	1.79E+01	2.77E+01	3.95E+01	7.25E+01	1.05E+02	1.71E+02	2.39E+02
25.0	6.79E+00	8.33E+00	9.63E+00	1.19E+01	1.38E+01	1.68E+01	2.24E+01	3.59E+01	5.25E+01	1.02E+02	1.53E+02	2.62E+02	3.80E+02
30.0	7.87E+00	9.66E+00	1.12E+01	1.39E+01	1.62E+01	1.99E+01	2.70E+01	4.44E+01	6.63E+01	1.35E+02	2.09E+02	3.73E+02	5.59E+02
35.0	8.94E+00	1.10E+01	1.28E+01	1.59E+01	1.86E+01	2.31E+01	3.16E+01	5.31E+01	8.08E+01	1.71E+02	2.73E+02	5.03E+02	7.75E+02
40.0	1.00E+01	1.23E+01	1.43E+01	1.79E+01	2.11E+01	2.62E+01	3.63E+01	6.21E+01	9.58E+01	2.10E+02	3.43E+02	6.52E+02	1.03E+03
45.0	1.11E+01	1.36E+01	1.58E+01	1.99E+01	2.35E+01	2.94E+01	4.11E+01	7.13E+01	1.11E+02	2.52E+02	4.20E+02	8.20E+02	1.32E+03
50.0	1.22E+01	1.48E+01	1.74E+01	2.18E+01	2.59E+01	3.25E+01	4.58E+01	8.07E+01	1.28E+02	2.96E+02	5.04E+02	1.01E+03	1.66E+03
55.0	1.32E+01	1.61E+01	1.89E+01	2.38E+01	2.83E+01	3.57E+01	5.07E+01	9.03E+01	1.44E+02	3.44E+02	5.94E+02	1.21E+03	2.04E+03
60.0	1.43E+01	1.74E+01	2.04E+01	2.58E+01	3.07E+01	3.89E+01	5.55E+01	1.00E+02	1.61E+02	3.94E+02	6.91E+02	1.44E+03	2.46E+03
65.0	1.54E+01	1.86E+01	2.19E+01	2.78E+01	3.31E+01	4.21E+01	6.04E+01	1.10E+02	1.78E+02	4.46E+02	7.95E+02	1.69E+03	2.92E+03
70.0	1.65E+01	1.99E+01	2.35E+01	2.98E+01	3.56E+01	4.54E+01	6.54E+01	1.20E+02	1.96E+02	5.01E+02	9.05E+02	1.95E+03	3.42E+03
75.0	1.76E+01	2.12E+01	2.50E+01	3.18E+01	3.81E+01	4.87E+01	7.05E+01	1.30E+02	2.14E+02	5.58E+02	1.02E+03	2.24E+03	3.98E+03
80.0	1.87E+01	2.24E+01	2.66E+01	3.38E+01	4.06E+01	5.20E+01	7.56E+01	1.41E+02	2.32E+02	6.18E+02	1.14E+03	2.54E+03	4.57E+03
85.0	1.98E+01	2.37E+01	2.82E+01	3.59E+01	4.31E+01	5.54E+01	8.08E+01	1.51E+02	2.51E+02	6.81E+02	1.27E+03	2.87E+03	5.22E+03
90.0	2.09E+01	2.50E+01	2.98E+01	3.80E+01	4.57E+01	5.88E+01	8.61E+01	1.62E+02	2.70E+02	7.46E+02	1.41E+03	3.21E+03	5.91E+03
95.0	2.21E+01	2.63E+01	3.14E+01	4.01E+01	4.83E+01	6.23E+01	9.14E+01	1.73E+02	2.89E+02	8.14E+02	1.55E+03	3.58E+03	6.66E+03
100.0	2.32E+01	2.76E+01	3.30E+01	4.22E+01	5.10E+01	6.58E+01	9.69E+01	1.84E+02	3.09E+02	8.84E+02	1.70E+03	3.97E+03	7.45E+03

	Energy (MeV)											
X (mfp)	0.40	0.30	0.20	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.015
0.5	1.66E+00	1.75E+00	1.91E+00	2.07E+00	2.37E+00	2.54E+00	2.59E+00	2.45E+00	2.12E+00	1.65E+00	1.23E+00	1.10E+00
1.0	2.60E+00	2.84E+00	3.29E+00	3.72E+00	4.50E+00	4.86E+00	4.75E+00	4.20E+00	3.24E+00	2.15E+00	1.38E+00	1.16E+00
2.0	5.37E+00	6.20E+00	7.75E+00	9.17E+00	1.14E+01	1.20E+01	1.06E+01	8.45E+00	5.56E+00	2.99E+00	1.58E+00	1.24E+00
3.0	9.44E+00	1.14E+01	1.50E+01	1.81E+01	2.23E+01	2.27E+01	1.85E+01	1.36E+01	7.96E+00	3.72E+00	1.73E+00	1.29E+00
4.0	1.49E+01	1.86E+01	2.55E+01	3.13E+01	3.80E+01	3.74E+01	2.82E+01	1.95E+01	1.04E+01	4.38E+00	1.86E+00	1.33E+00
5.0	2.17E+01	2.81E+01	3.98E+01	4.95E+01	5.91E+01	5.64E+01	4.00E+01	2.61E+01	1.30E+01	4.99E+00	1.96E+00	1.37E+00
6.0	3.01E+01	4.00E+01	5.85E+01	7.34E+01	8.64E+01	8.02E+01	5.38E+01	3.35E+01	1.56E+01	5.57E+00	2.06E+00	1.40E+00
7.0	4.01E+01	5.47E+01	8.21E+01	1.04E+02	1.21E+02	1.09E+02	6.98E+01	4.16E+01	1.83E+01	6.13E+00	2.14E+00	1.43E+00
8.0	5.18E+01	7.23E+01	1.11E+02	1.42E+02	1.63E+02	1.44E+02	8.80E+01	5.04E+01	2.11E+01	6.67E+00	2.22E+00	1.45E+00
9.0	6.54E+01	9.31E+01	1.47E+02	1.89E+02	2.14E+02	1.86E+02	1.09E+02	6.01E+01	2.40E+01	7.20E+00	2.29E+00	1.47E+00
10.0	8.08E+01	1.17E+02	1.90E+02	2.46E+02	2.76E+02	2.34E+02	1.32E+02	7.05E+01	2.69E+01	7.71E+00	2.36E+00	1.49E+00
15.0	1.91E+02	3.02E+02	5.37E+02	7.23E+02	7.78E+02	6.08E+02	2.92E+02	1.36E+02	4.32E+01	1.02E+01	2.65E+00	1.58E+00
20.0	3.62E+02	6.18E+02	1.20E+03	1.67E+03	1.75E+03	1.28E+03	5.42E+02	2.26E+02	6.18E+01	1.26E+01	2.88E+00	1.64E+00
25.0	6.06E+02	1.10E+03	2.32E+03	3.35E+03	3.45E+03	2.39E+03	9.09E+02	3.43E+02	8.29E+01	1.49E+01	3.08E+00	1.69E+00
30.0	9.29E+02	1.80E+03	4.06E+03	6.08E+03	6.21E+03	4.11E+03	1.42E+03	4.90E+02	1.06E+02	1.72E+01	3.26E+00	1.73E+00
35.0	1.34E+03	2.73E+03	6.61E+03	1.03E+04	1.04E+04	6.62E+03	2.10E+03	6.71E+02	1.32E+02	1.94E+01	3.41E+00	1.77E+00
40.0	1.84E+03	3.94E+03	1.02E+04	1.64E+04	1.67E+04	1.02E+04	2.99E+03	8.88E+02	1.60E+02	2.16E+01	3.56E+00	1.80E+00
45.0	2.44E+03	5.47E+03	1.50E+04	2.50E+04	2.55E+04	1.50E+04	4.12E+03	1.14E+03	1.90E+02	2.39E+01	3.69E+00	1.83E+00
50.0	3.14E+03	7.34E+03	2.13E+04	3.68E+04	3.77E+04	2.15E+04	5.53E+03	1.44E+03	2.22E+02	2.61E+01	3.81E+00	1.85E+00
55.0	3.95E+03	9.59E+03	2.94E+04	5.25E+04	5.42E+04	3.00E+04	7.25E+03	1.78E+03	2.56E+02	2.83E+01	3.93E+00	1.88E+00
60.0	4.88E+03	1.23E+04	3.96E+04	7.28E+04	7.58E+04	4.08E+04	9.33E+03	2.17E+03	2.93E+02	3.05E+01	4.04E+00	1.90E+00
65.0	5.92E+03	1.54E+04	5.20E+04	9.88E+04	1.04E+05	5.44E+04	1.18E+04	2.61E+03	3.32E+02	3.27E+01	4.15E+00	1.92E+00
70.0	7.08E+03	1.90E+04	6.72E+04	1.31E+05	1.40E+05	7.14E+04	1.47E+04	3.10E+03	3.73E+02	3.50E+01	4.25E+00	1.94E+00
75.0	8.38E+03	2.31E+04	8.53E+04	1.72E+05	1.85E+05	9.23E+04	1.82E+04	3.64E+03	4.16E+02	3.72E+01	4.35E+00	1.96E+00
80.0	9.81E+03	2.78E+04	1.07E+05	2.21E+05	2.40E+05	1.18E+05	2.21E+04	4.25E+03	4.62E+02	3.96E+01	4.45E+00	1.98E+00
85.0	1.14E+04	3.30E+04	1.32E+05	2.81E+05	3.09E+05	1.48E+05	2.67E+04	4.92E+03	5.11E+02	4.19E+01	4.55E+00	1.99E+00
90.0	1.31E+04	3.89E+04	1.61E+05	3.52E+05	3.92E+05	1.84E+05	3.20E+04	5.65E+03	5.62E+02	4.43E+01	4.64E+00	2.01E+00
95.0	1.49E+04	4.55E+04	1.95E+05	4.37E+05	4.93E+05	2.27E+05	3.79E+04	6.46E+03	6.15E+02	4.67E+01	4.73E+00	2.02E+00
100.0	1.70E+04	5.27E+04	2.34E+05	5.36E+05	6.13E+05	2.78E+05	4.47E+04	7.34E+03	6.72E+02	4.92E+01	4.82E+00	2.04E+00