

Lawrence Radiation Laboratory
UNIVERSITY OF CALIFORNIA
LIVERMORE

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COMPILATION OF X-RAY CROSS SECTIONS
SECTION IV

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COMPILATION OF X-RAY CROSS SECTIONS

SECTION IV

Abstract

This section contains tables of cross section values evaluated at the energies most used by x-ray crystallographers.

X-Ray Cross Sections for a Selection of Wavelengths

This section contains cross sections interpolated from the basic compilation at those wavelengths of most use to x-ray crystallographers. The wavelengths chosen were selected to correspond to those given in the International Tables for X-Ray Crystallography.*

The energy-to-wavelength conversion is given in Table I. Table II gives the cross sections in barns/atom; Table III, in cm²/g.

Table I. Energy-to-wavelength conversion

Target radiation		Å	keV	Target radiation		Å	keV
Ag	K α	0.5608	22.105	Ni	K α	1.6591	7.472
	K β_1	0.4970	24.942		K β_1	1.5001	8.265
Pd	K α	0.5869	21.125	Co	K α	1.7902	6.925
	K β_1	0.5205	23.819		K β_1	1.6208	7.649
Rh	K α	0.6147	20.169	Fe	K α	1.9373	6.400
	K β_1	0.5456	22.724		K β_1	1.7565	7.058
Mo	K α	0.7107	17.444	Mn	K α	2.1031	5.895
	K β_1	0.6323	19.608		K β_1	1.9102	6.490
Zn	K α	1.4364	8.631	Cr	K α	2.2909	5.412
	K β_1	1.2952	9.572		K β_1	2.0848	5.947
Cu	K α	1.5418	8.041	Ti	K α	2.7496	4.509
	K β_1	1.3922	8.905		K β_1	2.5138	4.932

* B. Koch, Chapter 3.2, "Absorption," in International Tables for X-Ray Crystallography, Vol. III, C. H. MacGillavry and G. D. Rieck, Eds. (Kynoch Press, Birmingham, England, 1962), pp. 162-169.

Table II. Total cross section in barns/atom.

KEV					
	1	2	3	4	5
	HYDROGEN	HELIUM	LITHIUM	BERYLLIUM	BORON
4.5090E+00	7.235E-01	4.392E+00	2.422E+01	8.418E+01	2.306E+02
4.9320E+00	7.040E-01	3.657E+00	1.864E+01	6.358E+01	1.740E+02
5.4120E+00	6.888E-01	3.089E+00	1.432E+01	4.763E+01	1.298E+02
5.8950E+00	6.782E-01	2.694E+00	1.137E+01	3.670E+01	9.933E+01
5.9470E+00	6.773E-01	2.659E+00	1.111E+01	3.574E+01	9.666E+01
6.4000E+00	6.700E-01	2.404E+00	9.193E+00	2.867E+01	7.685E+01
6.4900E+00	6.688E-01	2.361E+00	8.878E+00	2.751E+01	7.359E+01
6.9250E+00	6.638E-01	2.185E+00	7.594E+00	2.278E+01	6.026E+01
7.0580E+00	6.624E-01	2.140E+00	7.266E+00	2.157E+01	5.686E+01
7.4720E+00	6.588E-01	2.017E+00	6.400E+00	1.838E+01	4.784E+01
7.6490E+00	6.574E-01	1.971E+00	6.088E+00	1.724E+01	4.460E+01
8.0410E+00	6.548E-01	1.884E+00	5.495E+00	1.507E+01	3.845E+01
8.2650E+00	6.533E-01	1.843E+00	5.207E+00	1.401E+01	3.544E+01
8.6310E+00	6.512E-01	1.783E+00	4.800E+00	1.253E+01	3.123E+01
8.9050E+00	6.497E-01	1.744E+00	4.539E+00	1.158E+01	2.854E+01
9.5720E+00	6.467E-01	1.663E+00	4.027E+00	9.739E+00	2.328E+01
1.7444E+01	6.238E-01	1.342E+00	2.269E+00	3.668E+00	6.194E+00
1.9608E+01	6.192E-01	1.311E+00	2.150E+00	3.316E+00	5.256E+00
2.0169E+01	6.179E-01	1.304E+00	2.125E+00	3.247E+00	5.075E+00
2.1125E+01	6.155E-01	1.293E+00	2.091E+00	3.149E+00	4.815E+00
2.2105E+01	6.131E-01	1.284E+00	2.061E+00	3.062E+00	4.592E+00
2.2724E+01	6.117E-01	1.278E+00	2.043E+00	3.014E+00	4.469E+00
2.3819E+01	6.093E-01	1.268E+00	2.014E+00	2.939E+00	4.281E+00
2.4942E+01	6.069E-01	1.259E+00	1.988E+00	2.873E+00	4.117E+00

Table II (continued).

KEV	6		7		8		9		10	
	CARBON	NITROGEN	OXYGEN	FLORINE	NEON					
4.5090E+00	5.106E+02	9.993E+02	1.721E+03	2.895E+03	4.182E+03					
4.9320E+00	5.860E+02	7.582E+02	1.312E+03	2.218E+03	3.213E+03					
5.4120E+00	2.883E+02	5.681E+02	9.880E+02	1.676E+03	2.436E+03					
5.8950E+00	2.206E+02	4.357E+02	7.609E+02	1.295E+03	1.888E+03					
5.9470E+00	2.146E+02	4.240E+02	7.408E+02	1.262E+03	1.840E+03					
6.4000E+00	1.704E+02	3.371E+02	5.906E+02	1.008E+03	1.474E+03					
6.4900E+00	1.631E+02	3.227E+02	5.657E+02	9.662E+02	1.413E+03					
6.9250E+00	1.333E+02	2.637E+02	4.633E+02	7.926E+02	1.162E+03					
7.0580E+00	1.256E+02	2.485E+02	4.370E+02	7.480E+02	1.098E+03					
7.4720E+00	1.053E+02	2.083E+02	3.669E+02	6.289E+02	9.246E+02					
7.6490E+00	9.802E+01	1.938E+02	3.415E+02	5.857E+02	8.618E+02					
8.0410E+00	8.413E+01	1.661E+02	2.931E+02	5.032E+02	7.416E+02					
8.2650E+00	7.733E+01	1.526E+02	2.693E+02	4.624E+02	6.822E+02					
8.6310E+00	6.778E+01	1.335E+02	2.357E+02	4.049E+02	5.981E+02					
8.9050E+00	6.167E+01	1.213E+02	2.142E+02	3.679E+02	5.441E+02					
9.5720E+00	4.972E+01	9.738E+01	1.718E+02	2.951E+02	4.374E+02					
1.7444E+01	1.067E+01	1.837E+01	3.048E+01	4.999E+01	7.402E+01					
1.9608E+01	8.546E+00	1.408E+01	2.270E+01	3.642E+01	5.350E+01					
2.0169E+01	8.140E+00	1.326E+01	2.121E+01	3.382E+01	4.957E+01					
2.1125E+01	7.554E+00	1.208E+01	1.905E+01	3.004E+01	4.383E+01					
2.2105E+01	7.054E+00	1.106E+01	1.721E+01	2.684E+01	3.895E+01					
2.2724E+01	6.781E+00	1.051E+01	1.621E+01	2.509E+01	3.630E+01					
2.3819E+01	6.363E+00	9.673E+00	1.469E+01	2.244E+01	3.226E+01					
2.4942E+01	6.005E+00	8.958E+00	1.339E+01	2.020E+01	2.883E+01					

Table II (continued).

KEV	11			12		13		14		15	
	SODIUM			MAGNESIUM		ALUMINUM		SILICON		PHOSPHORUS	
4.5090E+00	6.395E+03	8.900E+03	1.184E+04	1.567E+04	1.987E+04						
4.9320E+00	4.939E+03	6.905E+03	9.214E+03	1.226E+04	1.563E+04						
5.4120E+00	3.761E+03	5.283E+03	7.074E+03	9.456E+03	1.211E+04						
5.8950E+00	2.926E+03	4.126E+03	5.544E+03	7.439E+03	9.570E+03						
5.9470E+00	2.851E+03	4.023E+03	5.407E+03	7.258E+03	9.341E+03						
6.4000E+00	2.289E+03	3.239E+03	4.368E+03	5.878E+03	7.590E+03						
6.4900E+00	2.196E+03	3.108E+03	4.194E+03	5.646E+03	7.296E+03						
6.9250E+00	1.808E+03	2.566E+03	3.472E+03	4.684E+03	6.070E+03						
7.0580E+00	1.708E+03	2.426E+03	3.285E+03	4.434E+03	5.752E+03						
7.4720E+00	1.441E+03	2.050E+03	2.784E+03	3.764E+03	4.894E+03						
7.6490E+00	1.344E+03	1.913E+03	2.601E+03	3.519E+03	4.581E+03						
8.0410E+00	1.157E+03	1.651E+03	2.249E+03	3.047E+03	3.975E+03						
8.2650E+00	1.065E+03	1.520E+03	2.074E+03	2.810E+03	3.670E+03						
8.6310E+00	9.333E+02	1.334E+03	1.824E+03	2.473E+03	3.236E+03						
8.9050E+00	8.489E+02	1.215E+03	1.663E+03	2.256E+03	2.955E+03						
9.5720E+00	6.823E+02	9.781E+02	1.344E+03	1.825E+03	2.396E+03						
1.7444E+01	1.122E+02	1.607E+02	2.258E+02	3.047E+02	4.048E+02						
1.9608E+01	8.011E+01	1.141E+02	1.605E+02	2.157E+02	2.865E+02						
2.0169E+01	7.396E+01	1.052E+02	1.480E+02	1.985E+02	2.636E+02						
2.1125E+01	6.497E+01	9.205E+01	1.295E+02	1.732E+02	2.299E+02						
2.2105E+01	5.734E+01	8.094E+01	1.137E+02	1.518E+02	2.012E+02						
2.2724E+01	5.319E+01	7.491E+01	1.052E+02	1.401E+02	1.856E+02						
2.3819E+01	4.690E+01	6.675E+01	9.218E+01	1.224E+02	1.619E+02						
2.4942E+01	4.156E+01	5.799E+01	8.113E+01	1.073E+02	1.417E+02						

Table II (continued).

KEV	16		17		18		19		20	
	SULFUR	CHLORINE	ARGON	POTASSIUM	CALCIUM					
4.5090E+00	2.472E+04	3.050E+04	3.825E+04	4.406E+04	5.354E+04					
4.9320E+00	1.939E+04	2.421E+04	3.025E+04	3.522E+04	4.248E+04					
5.4120E+00	1.501E+04	1.893E+04	2.358E+04	2.771E+04	3.325E+04					
5.8950E+00	1.185E+04	1.508E+04	1.873E+04	2.220E+04	2.652E+04					
5.9470E+00	1.157E+04	1.473E+04	1.823E+04	2.170E+04	2.591E+04					
6.4000E+00	9.402E+03	1.205E+04	1.493E+04	1.782E+04	2.123E+04					
6.4900E+00	9.037E+03	1.159E+04	1.436E+04	1.716E+04	2.044E+04					
6.9250E+00	7.520E+03	9.696E+03	1.199E+04	1.441E+04	1.713E+04					
7.0580E+00	7.126E+03	9.202E+03	1.138E+04	1.369E+04	1.627E+04					
7.4720E+00	6.065E+03	7.868E+03	9.715E+03	1.175E+04	1.393E+04					
7.6490E+00	5.677E+03	7.378E+03	9.105E+03	1.103E+04	1.307E+04					
8.0410E+00	4.927E+03	6.429E+03	7.924E+03	9.637E+03	1.141E+04					
8.2650E+00	4.551E+03	5.947E+03	7.327E+03	8.927E+03	1.057E+04					
8.6310E+00	4.016E+03	5.261E+03	6.475E+03	7.912E+03	9.365E+03					
8.9050E+00	3.669E+03	4.815E+03	5.925E+03	7.252E+03	8.584E+03					
9.5720E+00	2.979E+03	3.926E+03	4.824E+03	5.932E+03	7.020E+03					
1.7444E+01	5.125E+02	6.853E+02	8.370E+02	1.052E+03	1.264E+03					
1.9608E+01	3.640E+02	4.864E+02	5.935E+02	7.475E+02	9.027E+02					
2.0169E+01	3.352E+02	4.478E+02	5.462E+02	6.882E+02	8.321E+02					
2.1125E+01	2.927E+02	3.905E+02	4.762E+02	5.999E+02	7.269E+02					
2.2105E+01	2.564E+02	3.416E+02	4.165E+02	5.246E+02	6.371E+02					
2.2724E+01	2.367E+02	3.151E+02	3.843E+02	4.835E+02	5.880E+02					
2.3819E+01	2.067E+02	2.746E+02	3.345E+02	4.211E+02	5.132E+02					
2.4942E+01	1.811E+02	2.402E+02	2.924E+02	3.679E+02	4.493E+02					

Table II (continued).

KEY	21				23				25			
	SCANDIUM				TITANIUM				VANADIUM			
	22				24				25			
	CHROMIUM				MANGANESE				MANGANESE			
4.5090E+00	6.117E+04	8.858E+03	1.055E+04	1.233E+04	1.460E+04	1.138E+04	8.765E+03	6.895E+03	6.728E+03	5.467E+03	5.256E+03	3.696E+04
4.9320E+00	4.911E+04	6.904E+03	8.233E+03	9.608E+03	1.138E+04	8.765E+03	6.895E+03	6.728E+03	5.467E+03	5.256E+03	3.696E+04	3.514E+04
5.4120E+00	3.889E+04	4.545E+04	6.349E+03	7.401E+03	5.822E+03	5.680E+03	3.991E+04	3.846E+04	3.238E+04	3.079E+04	2.647E+04	2.839E+04
5.8950E+00	3.134E+04	3.652E+04	4.337E+04	5.680E+03	3.991E+04	3.846E+04	3.238E+04	3.079E+04	2.647E+04	2.839E+04	2.839E+04	2.486E+04
5.9470E+00	3.066E+04	3.571E+04	4.233E+04	3.480E+04	3.351E+04	2.814E+04	2.674E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04
6.4000E+00	2.530E+04	2.943E+04	3.480E+04	3.351E+04	2.814E+04	2.674E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04
6.4900E+00	2.439E+04	2.837E+04	3.351E+04	2.814E+04	2.674E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04
6.9250E+00	2.057E+04	2.350E+04	2.814E+04	2.674E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04
7.0580E+00	1.957E+04	2.272E+04	2.674E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04
7.4720E+00	1.685E+04	1.955E+04	2.294E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
7.6490E+00	1.584E+04	1.837E+04	2.154E+04	1.883E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
8.0410E+00	1.389E+04	1.610E+04	1.837E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
8.2650E+00	1.288E+04	1.493E+04	1.745E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
8.6310E+00	1.145E+04	1.327E+04	1.549E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
8.9050E+00	1.051E+04	1.219E+04	1.421E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
9.5720E+00	8.631E+03	1.001E+04	1.164E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04	1.355E+04
1.7444E+01	1.571E+03	1.849E+03	2.135E+03	2.526E+03	2.906E+03	3.288E+03	3.670E+03	4.052E+03	4.434E+03	4.816E+03	5.198E+03	5.580E+03
1.9608E+01	1.120E+03	1.324E+03	1.528E+03	1.813E+03	2.088E+03	2.363E+03	2.638E+03	2.913E+03	3.188E+03	3.463E+03	3.738E+03	4.013E+03
2.0169E+01	1.032E+03	1.221E+03	1.410E+03	1.673E+03	1.927E+03	2.181E+03	2.435E+03	2.689E+03	2.943E+03	3.197E+03	3.451E+03	3.705E+03
2.1125E+01	8.997E+02	1.067E+03	1.232E+03	1.464E+03	1.687E+03	1.910E+03	2.133E+03	2.356E+03	2.579E+03	2.802E+03	3.025E+03	3.248E+03
2.2105E+01	7.872E+02	9.355E+02	1.081E+03	1.285E+03	1.481E+03	1.687E+03	1.885E+03	2.082E+03	2.280E+03	2.478E+03	2.676E+03	2.874E+03
2.2724E+01	7.258E+02	8.636E+02	9.980E+02	1.187E+03	1.368E+03	1.549E+03	1.730E+03	1.911E+03	2.092E+03	2.273E+03	2.454E+03	2.635E+03
2.3819E+01	6.323E+02	7.537E+02	8.714E+02	1.037E+03	1.196E+03	1.368E+03	1.549E+03	1.730E+03	1.911E+03	2.092E+03	2.273E+03	2.454E+03
2.4942E+01	5.526E+02	6.600E+02	7.632E+02	9.087E+02	1.048E+03	1.196E+03	1.368E+03	1.549E+03	1.730E+03	1.911E+03	2.092E+03	2.273E+03

Table II (continued).

KEV	26				27				28				29				30			
	IRON				COBALT				NICKEL				COPPER				ZINC			
4.5090E+00	1.746E+04	2.014E+04	2.337E+04	2.714E+04	2.014E+04	2.337E+04	2.714E+04	3.040E+04	2.014E+04	2.337E+04	2.714E+04	3.040E+04	2.014E+04	2.337E+04	2.714E+04	3.040E+04	2.014E+04	2.337E+04	2.714E+04	3.040E+04
4.9320E+00	1.362E+04	1.576E+04	1.831E+04	2.119E+04	1.576E+04	1.831E+04	2.119E+04	2.391E+04	1.576E+04	1.831E+04	2.119E+04	2.391E+04	1.576E+04	1.831E+04	2.119E+04	2.391E+04	1.576E+04	1.831E+04	2.119E+04	2.391E+04
5.4120E+00	1.049E+04	1.219E+04	1.419E+04	1.638E+04	1.219E+04	1.419E+04	1.638E+04	1.864E+04	1.219E+04	1.419E+04	1.638E+04	1.864E+04	1.219E+04	1.419E+04	1.638E+04	1.864E+04	1.219E+04	1.419E+04	1.638E+04	1.864E+04
5.8950E+00	8.248E+03	9.630E+03	1.123E+04	1.292E+04	9.630E+03	1.123E+04	1.292E+04	1.483E+04	9.630E+03	1.123E+04	1.292E+04	1.483E+04	9.630E+03	1.123E+04	1.292E+04	1.483E+04	9.630E+03	1.123E+04	1.292E+04	1.483E+04
5.9470E+00	8.047E+03	9.359E+03	1.095E+04	1.261E+04	9.359E+03	1.095E+04	1.261E+04	1.449E+04	9.359E+03	1.095E+04	1.261E+04	1.449E+04	9.359E+03	1.095E+04	1.261E+04	1.449E+04	9.359E+03	1.095E+04	1.261E+04	1.449E+04
6.4000E+00	6.528E+03	7.661E+03	8.942E+03	1.027E+04	7.661E+03	8.942E+03	1.027E+04	1.190E+04	7.661E+03	8.942E+03	1.027E+04	1.190E+04	7.661E+03	8.942E+03	1.027E+04	1.190E+04	7.661E+03	8.942E+03	1.027E+04	1.190E+04
6.4900E+00	6.274E+03	7.368E+03	8.602E+03	9.878E+03	7.368E+03	8.602E+03	9.878E+03	1.146E+04	7.368E+03	8.602E+03	9.878E+03	1.146E+04	7.368E+03	8.602E+03	9.878E+03	1.146E+04	7.368E+03	8.602E+03	9.878E+03	1.146E+04
6.9250E+00	5.216E+03	6.151E+03	7.187E+03	8.241E+03	6.151E+03	7.187E+03	8.241E+03	9.630E+03	6.151E+03	7.187E+03	8.241E+03	9.630E+03	6.151E+03	7.187E+03	8.241E+03	9.630E+03	6.151E+03	7.187E+03	8.241E+03	9.630E+03
7.0580E+00	4.942E+03	5.834E+03	6.819E+03	7.815E+03	5.834E+03	6.819E+03	7.815E+03	9.152E+03	5.834E+03	6.819E+03	7.815E+03	9.152E+03	5.834E+03	6.819E+03	7.815E+03	9.152E+03	5.834E+03	6.819E+03	7.815E+03	9.152E+03
7.4720E+00	3.399E+04	4.981E+03	5.825E+03	6.668E+03	4.981E+03	5.825E+03	6.668E+03	7.858E+03	4.981E+03	5.825E+03	6.668E+03	7.858E+03	4.981E+03	5.825E+03	6.668E+03	7.858E+03	4.981E+03	5.825E+03	6.668E+03	7.858E+03
7.6490E+00	3.204E+04	4.669E+03	5.462E+03	6.248E+03	4.669E+03	5.462E+03	6.248E+03	7.382E+03	4.669E+03	5.462E+03	6.248E+03	7.382E+03	4.669E+03	5.462E+03	6.248E+03	7.382E+03	4.669E+03	5.462E+03	6.248E+03	7.382E+03
8.0410E+00	2.823E+04	3.313E+04	4.759E+03	5.437E+03	3.313E+04	4.759E+03	5.437E+03	6.460E+03	3.313E+04	4.759E+03	5.437E+03	6.460E+03	3.313E+04	4.759E+03	5.437E+03	6.460E+03	3.313E+04	4.759E+03	5.437E+03	6.460E+03
8.2650E+00	2.628E+04	3.081E+04	4.409E+03	5.035E+03	3.081E+04	4.409E+03	5.035E+03	6.002E+03	3.081E+04	4.409E+03	5.035E+03	6.002E+03	3.081E+04	4.409E+03	5.035E+03	6.002E+03	3.081E+04	4.409E+03	5.035E+03	6.002E+03
8.6310E+00	2.349E+04	2.749E+04	2.983E+04	4.463E+03	2.749E+04	2.983E+04	4.463E+03	5.345E+03	2.749E+04	2.983E+04	4.463E+03	5.345E+03	2.749E+04	2.983E+04	4.463E+03	5.345E+03	2.749E+04	2.983E+04	4.463E+03	5.345E+03
8.9050E+00	2.166E+04	2.531E+04	2.756E+04	4.088E+03	2.531E+04	2.756E+04	4.088E+03	4.917E+03	2.531E+04	2.756E+04	4.088E+03	4.917E+03	2.531E+04	2.756E+04	4.088E+03	4.917E+03	2.531E+04	2.756E+04	4.088E+03	4.917E+03
9.5720E+00	1.796E+04	2.092E+04	2.295E+04	2.588E+04	2.092E+04	2.295E+04	2.588E+04	4.056E+03	2.092E+04	2.295E+04	2.588E+04	4.056E+03	2.092E+04	2.295E+04	2.588E+04	4.056E+03	2.092E+04	2.295E+04	2.588E+04	4.056E+03
1.7444E+01	3.500E+03	4.014E+03	4.604E+03	5.206E+03	4.014E+03	4.604E+03	5.206E+03	6.021E+03	4.014E+03	4.604E+03	5.206E+03	6.021E+03	4.014E+03	4.604E+03	5.206E+03	6.021E+03	4.014E+03	4.604E+03	5.206E+03	6.021E+03
1.9608E+01	2.523E+03	2.888E+03	3.331E+03	3.774E+03	2.888E+03	3.331E+03	3.774E+03	4.370E+03	2.888E+03	3.331E+03	3.774E+03	4.370E+03	2.888E+03	3.331E+03	3.774E+03	4.370E+03	2.888E+03	3.331E+03	3.774E+03	4.370E+03
2.0169E+01	2.330E+03	2.666E+03	3.079E+03	3.490E+03	2.666E+03	3.079E+03	3.490E+03	4.042E+03	2.666E+03	3.079E+03	3.490E+03	4.042E+03	2.666E+03	3.079E+03	3.490E+03	4.042E+03	2.666E+03	3.079E+03	3.490E+03	4.042E+03
2.1125E+01	2.040E+03	2.333E+03	2.697E+03	3.061E+03	2.333E+03	2.697E+03	3.061E+03	3.545E+03	2.333E+03	2.697E+03	3.061E+03	3.545E+03	2.333E+03	2.697E+03	3.061E+03	3.545E+03	2.333E+03	2.697E+03	3.061E+03	3.545E+03
2.2105E+01	1.791E+03	2.047E+03	2.370E+03	2.693E+03	2.047E+03	2.370E+03	2.693E+03	3.118E+03	2.047E+03	2.370E+03	2.693E+03	3.118E+03	2.047E+03	2.370E+03	2.693E+03	3.118E+03	2.047E+03	2.370E+03	2.693E+03	3.118E+03
2.2724E+01	1.654E+03	1.891E+03	2.191E+03	2.491E+03	1.891E+03	2.191E+03	2.491E+03	2.884E+03	1.891E+03	2.191E+03	2.491E+03	2.884E+03	1.891E+03	2.191E+03	2.491E+03	2.884E+03	1.891E+03	2.191E+03	2.491E+03	2.884E+03
2.3819E+01	1.446E+03	1.652E+03	1.915E+03	2.181E+03	1.652E+03	1.915E+03	2.181E+03	2.525E+03	1.652E+03	1.915E+03	2.181E+03	2.525E+03	1.652E+03	1.915E+03	2.181E+03	2.525E+03	1.652E+03	1.915E+03	2.181E+03	2.525E+03
2.4942E+01	1.267E+03	1.447E+03	1.681E+03	1.915E+03	1.447E+03	1.681E+03	1.915E+03	2.217E+03	1.447E+03	1.681E+03	1.915E+03	2.217E+03	1.447E+03	1.681E+03	1.915E+03	2.217E+03	1.447E+03	1.681E+03	1.915E+03	2.217E+03

Table II (continued).

KEY	31 GALLIUM	32 GERMANIUM	33 ARSENIC	34 SELENIUM	35 BROMINE
4.5090E+00	3.579E+04	3.968E+04	4.571E+04	5.283E+04	5.774E+04
4.9320E+00	2.798E+04	3.107E+04	3.589E+04	4.152E+04	4.541E+04
5.4120E+00	2.164E+04	2.410E+04	2.785E+04	3.226E+04	3.532E+04
5.8950E+00	1.708E+04	1.908E+04	2.208E+04	2.557E+04	2.802E+04
5.9470E+00	1.667E+04	1.863E+04	2.156E+04	2.497E+04	2.737E+04
6.4000E+00	1.358E+04	1.524E+04	1.761E+04	2.039E+04	2.238E+04
6.4900E+00	1.306E+04	1.467E+04	1.695E+04	1.962E+04	2.154E+04
6.9250E+00	1.090E+04	1.229E+04	1.418E+04	1.640E+04	1.803E+04
7.0580E+00	1.034E+04	1.167E+04	1.346E+04	1.556E+04	1.711E+04
7.4720E+00	8.820E+03	9.992E+03	1.151E+04	1.330E+04	1.464E+04
7.6490E+00	8.264E+03	9.376E+03	1.079E+04	1.247E+04	1.374E+04
8.0410E+00	7.193E+03	8.186E+03	9.411E+03	1.087E+04	1.198E+04
8.2650E+00	6.658E+03	7.596E+03	8.720E+03	1.006E+04	1.110E+04
8.6310E+00	5.895E+03	6.750E+03	7.733E+03	8.915E+03	9.848E+03
8.9050E+00	5.401E+03	6.201E+03	7.092E+03	8.171E+03	9.033E+03
9.5720E+00	4.413E+03	5.097E+03	5.809E+03	6.682E+03	7.401E+03
1.7444E+01	6.587E+03	7.289E+03	8.207E+03	9.023E+03	9.910E+03
1.9608E+01	4.826E+03	5.335E+03	6.042E+03	6.713E+03	7.373E+03
2.0169E+01	4.473E+03	4.943E+03	5.605E+03	6.242E+03	6.857E+03
2.1125E+01	3.931E+03	4.345E+03	4.933E+03	5.512E+03	6.055E+03
2.2105E+01	3.465E+03	3.630E+03	4.354E+03	4.881E+03	5.362E+03
2.2724E+01	3.209E+03	3.547E+03	4.035E+03	4.533E+03	4.980E+03
2.3819E+01	2.816E+03	3.113E+03	3.545E+03	3.996E+03	4.390E+03
2.4942E+01	2.478E+03	2.739E+03	3.123E+03	3.532E+03	3.881E+03

Table II (continued).

KEV	36				37				38				39				40			
	KRYPTON				RUBIDIUM				STRONTIUM				YTRIUM				ZIRCONIUM			
4.5090E+00	6.461E+04	7.212E+04	8.032E+04	8.836E+04	9.812E+04															
4.19320E+00	5.086E+04	5.681E+04	6.336E+04	6.975E+04	7.739E+04															
5.4120E+00	3.960E+04	4.424E+04	4.937E+04	5.445E+04	6.037E+04															
5.8950E+00	3.145E+04	3.514E+04	3.923E+04	4.335E+04	4.802E+04															
5.9470E+00	3.071E+04	3.432E+04	3.831E+04	4.234E+04	4.691E+04															
6.4000E+00	2.514E+04	2.809E+04	3.134E+04	3.473E+04	3.844E+04															
6.4900E+00	2.420E+04	2.704E+04	3.015E+04	3.344E+04	3.701E+04															
6.9250E+00	2.027E+04	2.266E+04	2.525E+04	2.807E+04	3.104E+04															
7.0580E+00	1.925E+04	2.151E+04	2.397E+04	2.666E+04	2.948E+04															
7.4720E+00	1.648E+04	1.842E+04	2.051E+04	2.287E+04	2.527E+04															
7.6490E+00	1.547E+04	1.728E+04	1.924E+04	2.147E+04	2.372E+04															
8.0410E+00	1.350E+04	1.509E+04	1.678E+04	1.876E+04	2.071E+04															
8.2650E+00	1.251E+04	1.398E+04	1.554E+04	1.741E+04	1.921E+04															
8.6310E+00	1.110E+04	1.240E+04	1.377E+04	1.546E+04	1.705E+04															
8.9050E+00	1.019E+04	1.138E+04	1.262E+04	1.420E+04	1.565E+04															
9.5720E+00	8.353E+03	9.325E+03	1.033E+04	1.166E+04	1.284E+04															
1.7444E+01	1.101E+04	1.178E+04	1.281E+04	1.440E+04	1.639E+03															
1.9608E+01	8.159E+03	8.809E+03	9.543E+03	1.071E+04	1.139E+04															
2.0169E+01	7.582E+03	8.202E+03	8.880E+03	9.964E+03	1.061E+04															
2.1125E+01	6.690E+03	7.255E+03	7.855E+03	8.814E+03	9.412E+03															
2.2105E+01	5.918E+03	6.434E+03	6.967E+03	7.817E+03	8.367E+03															
2.2724E+01	5.493E+03	5.981E+03	6.477E+03	7.267E+03	7.789E+03															
2.3819E+01	4.838E+03	5.281E+03	5.719E+03	6.417E+03	6.895E+03															
2.4942E+01	4.274E+03	4.676E+03	5.064E+03	5.681E+03	6.120E+03															

Table II (continued).

KEY	41				42				43				44				45			
	NI OBIUM				MOLYBDENUM				TECHNETIUM				RUTHENIUM				RHODIUM			
4.5090E+00	1.075E+05	1.176E+05	1.292E+05	1.396E+05	1.176E+05	1.176E+05	1.292E+05	1.396E+05	1.292E+05	1.292E+05	1.292E+05	1.396E+05	1.396E+05	1.396E+05	1.396E+05	1.396E+05	1.524E+05	1.524E+05	1.524E+05	1.524E+05
4.9320E+00	8.517E+04	9.314E+04	1.021E+05	1.109E+05	9.314E+04	9.314E+04	1.021E+05	1.109E+05	1.021E+05	1.021E+05	1.021E+05	1.109E+05	1.109E+05	1.109E+05	1.109E+05	1.109E+05	1.210E+05	1.210E+05	1.210E+05	1.210E+05
5.4120E+00	6.663E+04	7.288E+04	7.981E+04	8.694E+04	7.288E+04	7.288E+04	7.981E+04	8.694E+04	7.981E+04	7.981E+04	7.981E+04	8.694E+04	8.694E+04	8.694E+04	8.694E+04	8.694E+04	9.486E+04	9.486E+04	9.486E+04	9.486E+04
5.8950E+00	5.312E+04	5.812E+04	6.360E+04	6.948E+04	5.812E+04	5.812E+04	6.360E+04	6.948E+04	6.360E+04	6.360E+04	6.360E+04	6.948E+04	6.948E+04	6.948E+04	6.948E+04	6.948E+04	7.582E+04	7.582E+04	7.582E+04	7.582E+04
5.9470E+00	5.190E+04	5.679E+04	6.214E+04	6.789E+04	5.679E+04	5.679E+04	6.214E+04	6.789E+04	6.214E+04	6.214E+04	6.214E+04	6.789E+04	6.789E+04	6.789E+04	6.789E+04	6.789E+04	7.410E+04	7.410E+04	7.410E+04	7.410E+04
6.4000E+00	4.256E+04	4.661E+04	5.099E+04	5.582E+04	4.661E+04	4.661E+04	5.099E+04	5.582E+04	5.099E+04	5.099E+04	5.099E+04	5.582E+04	5.582E+04	5.582E+04	5.582E+04	5.582E+04	6.094E+04	6.094E+04	6.094E+04	6.094E+04
6.4900E+00	4.098E+04	4.489E+04	4.910E+04	5.377E+04	4.489E+04	4.489E+04	4.910E+04	5.377E+04	4.910E+04	4.910E+04	4.910E+04	5.377E+04	5.377E+04	5.377E+04	5.377E+04	5.377E+04	5.871E+04	5.871E+04	5.871E+04	5.871E+04
6.9250E+00	3.438E+04	3.769E+04	4.122E+04	4.522E+04	3.769E+04	3.769E+04	4.122E+04	4.522E+04	4.122E+04	4.122E+04	4.122E+04	4.522E+04	4.522E+04	4.522E+04	4.522E+04	4.522E+04	4.938E+04	4.938E+04	4.938E+04	4.938E+04
7.0580E+00	3.266E+04	3.581E+04	3.917E+04	4.298E+04	3.581E+04	3.581E+04	3.917E+04	4.298E+04	3.917E+04	3.917E+04	3.917E+04	4.298E+04	4.298E+04	4.298E+04	4.298E+04	4.298E+04	4.694E+04	4.694E+04	4.694E+04	4.694E+04
7.4720E+00	2.800E+04	3.072E+04	3.359E+04	3.692E+04	3.072E+04	3.072E+04	3.359E+04	3.692E+04	3.359E+04	3.359E+04	3.359E+04	3.692E+04	3.692E+04	3.692E+04	3.692E+04	3.692E+04	4.033E+04	4.033E+04	4.033E+04	4.033E+04
7.6490E+00	2.628E+04	2.884E+04	3.154E+04	3.468E+04	2.884E+04	2.884E+04	3.154E+04	3.468E+04	3.154E+04	3.154E+04	3.154E+04	3.468E+04	3.468E+04	3.468E+04	3.468E+04	3.468E+04	3.789E+04	3.789E+04	3.789E+04	3.789E+04
8.0410E+00	2.296E+04	2.521E+04	2.757E+04	3.035E+04	2.521E+04	2.521E+04	2.757E+04	3.035E+04	2.757E+04	2.757E+04	2.757E+04	3.035E+04	3.035E+04	3.035E+04	3.035E+04	3.035E+04	3.317E+04	3.317E+04	3.317E+04	3.317E+04
8.2650E+00	2.128E+04	2.338E+04	2.558E+04	2.816E+04	2.338E+04	2.338E+04	2.558E+04	2.816E+04	2.558E+04	2.558E+04	2.558E+04	2.816E+04	2.816E+04	2.816E+04	2.816E+04	2.816E+04	3.078E+04	3.078E+04	3.078E+04	3.078E+04
8.6310E+00	1.888E+04	2.077E+04	2.272E+04	2.503E+04	2.077E+04	2.077E+04	2.272E+04	2.503E+04	2.272E+04	2.272E+04	2.272E+04	2.503E+04	2.503E+04	2.503E+04	2.503E+04	2.503E+04	2.737E+04	2.737E+04	2.737E+04	2.737E+04
8.9050E+00	1.732E+04	1.906E+04	2.086E+04	2.299E+04	1.906E+04	1.906E+04	2.086E+04	2.299E+04	2.086E+04	2.086E+04	2.086E+04	2.299E+04	2.299E+04	2.299E+04	2.299E+04	2.299E+04	2.514E+04	2.514E+04	2.514E+04	2.514E+04
9.5720E+00	1.420E+04	1.565E+04	1.713E+04	1.890E+04	1.565E+04	1.565E+04	1.713E+04	1.890E+04	1.713E+04	1.713E+04	1.713E+04	1.890E+04	1.890E+04	1.890E+04	1.890E+04	1.890E+04	2.067E+04	2.067E+04	2.067E+04	2.067E+04
1.7444E+01	2.617E+03	2.937E+03	3.251E+03	3.581E+03	2.937E+03	2.937E+03	3.251E+03	3.581E+03	3.251E+03	3.251E+03	3.251E+03	3.581E+03	3.581E+03	3.581E+03	3.581E+03	3.581E+03	3.938E+03	3.938E+03	3.938E+03	3.938E+03
1.9608E+01	1.253E+04	2.118E+03	2.350E+03	2.585E+03	2.118E+03	2.118E+03	2.350E+03	2.585E+03	2.350E+03	2.350E+03	2.350E+03	2.585E+03	2.585E+03	2.585E+03	2.585E+03	2.585E+03	2.845E+03	2.845E+03	2.845E+03	2.845E+03
2.0169E+01	1.167E+04	1.264E+04	2.173E+03	2.389E+03	1.264E+04	1.264E+04	2.173E+03	2.389E+03	2.173E+03	2.173E+03	2.173E+03	2.389E+03	2.389E+03	2.389E+03	2.389E+03	2.389E+03	2.630E+03	2.630E+03	2.630E+03	2.630E+03
2.1125E+01	1.035E+04	1.121E+04	1.203E+04	2.098E+03	1.121E+04	1.121E+04	1.203E+04	2.098E+03	1.203E+04	1.203E+04	1.203E+04	2.098E+03	2.098E+03	2.098E+03	2.098E+03	2.098E+03	2.310E+03	2.310E+03	2.310E+03	2.310E+03
2.2105E+01	9.200E+03	9.963E+03	1.068E+04	1.847E+03	9.963E+03	9.963E+03	1.068E+04	1.847E+03	1.068E+04	1.068E+04	1.068E+04	1.847E+03	1.847E+03	1.847E+03	1.847E+03	1.847E+03	2.035E+03	2.035E+03	2.035E+03	2.035E+03
2.2724E+01	8.564E+03	9.275E+03	9.954E+03	1.071E+04	9.275E+03	9.275E+03	9.954E+03	1.071E+04	9.954E+03	9.954E+03	9.954E+03	1.071E+04	1.071E+04	1.071E+04	1.071E+04	1.071E+04	1.884E+03	1.884E+03	1.884E+03	1.884E+03
2.3819E+01	7.581E+03	8.210E+03	8.825E+03	9.500E+03	8.210E+03	8.210E+03	8.825E+03	9.500E+03	8.825E+03	8.825E+03	8.825E+03	9.500E+03	9.500E+03	9.500E+03	9.500E+03	9.500E+03	9.975E+03	9.975E+03	9.975E+03	9.975E+03
2.4942E+01	6.729E+03	7.286E+03	7.845E+03	8.450E+03	7.286E+03	7.286E+03	7.845E+03	8.450E+03	7.845E+03	7.845E+03	7.845E+03	8.450E+03	8.450E+03	8.450E+03	8.450E+03	8.450E+03	8.889E+03	8.889E+03	8.889E+03	8.889E+03

Table II (continued).

KEV	46				47				48				49				50			
	PALLADIUM				SILVER				CADMIUM				INDIUM				TIN			
4.5090E+00	1.639E+05	1.768E+05	1.985E+05	2.194E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05	2.224E+05
4.9320E+00	1.305E+05	1.407E+05	1.571E+05	1.726E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05	1.772E+05
5.4120E+00	1.026E+05	1.106E+05	1.229E+05	1.345E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05	1.397E+05
5.8950E+00	8.225E+04	8.662E+04	9.589E+04	1.070E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05
5.9470E+00	8.040E+04	8.662E+04	9.589E+04	1.070E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05	1.122E+05
6.4000E+00	6.623E+04	7.137E+04	7.877E+04	8.562E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04	9.060E+04
6.4900E+00	6.382E+04	6.879E+04	7.588E+04	8.244E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04	8.735E+04
6.9250E+00	5.376E+04	5.756E+04	6.379E+04	6.914E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04	7.374E+04
7.0580E+00	5.112E+04	5.512E+04	6.063E+04	6.567E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04	7.017E+04
7.4720E+00	4.397E+04	4.742E+04	5.205E+04	5.628E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04	6.047E+04
7.6490E+00	4.133E+04	4.458E+04	4.891E+04	5.282E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04	5.689E+04
8.1040E+00	3.621E+04	3.907E+04	4.279E+04	4.614E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04	4.993E+04
8.2650E+00	3.362E+04	3.629E+04	3.973E+04	4.281E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04	4.641E+04
8.6310E+00	2.991E+04	3.230E+04	3.533E+04	3.804E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04	4.135E+04
8.9050E+00	2.749E+04	2.970E+04	3.247E+04	3.493E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04	3.805E+04
9.5720E+00	2.263E+04	2.447E+04	2.671E+04	2.870E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04	3.141E+04
1.7444E+01	4.314E+03	4.725E+03	5.175E+03	5.554E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03	6.145E+03
1.9608E+01	3.114E+03	3.422E+03	3.755E+03	4.037E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03	4.459E+03
2.0169E+01	2.878E+03	3.165E+03	3.477E+03	3.738E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03	4.125E+03
2.1125E+01	2.525E+03	2.780E+03	3.059E+03	3.291E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03	3.623E+03
2.2105E+01	2.222E+03	2.449E+03	2.698E+03	2.906E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03	3.191E+03
2.2724E+01	2.056E+03	2.268E+03	2.500E+03	2.694E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03	2.955E+03
2.3819E+01	1.802E+03	1.990E+03	2.197E+03	2.370E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03	2.592E+03
2.4942E+01	1.008E+04	1.752E+03	1.935E+03	2.091E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03	2.281E+03

Table II (continued).

KEV	51		52		53		54		55	
	ANTIMONY	TELLURIUM	IODINE		XENON		CESIUM			
4.5090E+00	2.016E+05	1.596E+05	6.172E+04		6.534E+04		7.138E+04			
4.9320E+00	1.872E+05	1.786E+05	1.940E+05		1.488E+05		5.707E+04			
5.4120E+00	1.483E+05	1.629E+05	1.760E+05		1.647E+05		1.771E+05			
5.8950E+00	1.197E+05	1.306E+05	1.403E+05		1.528E+05		1.638E+05			
5.9470E+00	1.171E+05	1.277E+05	1.371E+05		1.494E+05		1.600E+05			
6.4000E+00	9.695E+04	1.054E+05	1.128E+05		1.231E+05		1.317E+05			
6.4900E+00	9.352E+04	1.016E+05	1.087E+05		1.187E+05		1.269E+05			
6.9250E+00	7.914E+04	8.568E+04	9.145E+04		1.001E+05		1.068E+05			
7.0580E+00	7.536E+04	8.152E+04	8.693E+04		9.518E+04		1.015E+05			
7.4720E+00	6.509E+04	7.021E+04	7.471E+04		8.193E+04		8.724E+04			
7.6490E+00	6.129E+04	6.604E+04	7.021E+04		7.704E+04		8.199E+04			
8.0410E+00	5.389E+04	5.793E+04	6.147E+04		6.754E+04		7.180E+04			
8.2650E+00	5.012E+04	5.384E+04	5.710E+04		6.276E+04		6.670E+04			
8.6310E+00	4.471E+04	4.797E+04	5.084E+04		5.591E+04		5.939E+04			
8.9050E+00	4.118E+04	4.415E+04	4.675E+04		5.144E+04		5.462E+04			
9.5720E+00	3.405E+04	3.643E+04	3.854E+04		4.243E+04		4.502E+04			
1.7444E+01	6.675E+03	7.186E+03	7.654E+03		8.352E+03		8.923E+03			
1.9608E+01	4.837E+03	5.227E+03	5.590E+03		6.075E+03		6.511E+03			
2.0169E+01	4.472E+03	4.839E+03	5.182E+03		5.624E+03		6.034E+03			
2.1125E+01	3.921E+03	4.256E+03	4.570E+03		4.947E+03		5.319E+03			
2.2105E+01	3.449E+03	3.753E+03	4.042E+03		4.364E+03		4.702E+03			
2.2724E+01	3.190E+03	3.478E+03	3.751E+03		4.043E+03		4.363E+03			
2.3819E+01	2.794E+03	3.055E+03	3.304E+03		3.552E+03		3.841E+03			
2.4942E+01	2.455E+03	2.692E+03	2.919E+03		3.130E+03		3.392E+03			

Table II (continued).

KEY	56 BARIUM	57 LANTHANUM	58 CERIUM	59 PRASEODYMIUM	60 NEODYMIUM
4.5090E+00	7.613E+04	8.180E+04	8.899E+04	9.682E+04	1.036E+05
4.9320E+00	6.069E+04	6.510E+04	7.081E+04	7.711E+04	8.240E+04
5.4120E+00	1.340E+05	1.560E+05	5.594E+04	6.094E+04	6.500E+04
5.8950E+00	1.505E+05	1.560E+05	1.212E+05	4.910E+04	5.228E+04
5.9470E+00	1.471E+05	1.526E+05	1.185E+05	4.802E+04	5.112E+04
6.4000E+00	1.403E+05	1.466E+05	1.379E+05	1.053E+05	1.111E+05
6.4900E+00	1.352E+05	1.414E+05	1.329E+05	1.427E+05	1.071E+05
6.9250E+00	1.138E+05	1.197E+05	1.301E+05	1.395E+05	1.274E+05
7.0580E+00	1.083E+05	1.140E+05	1.238E+05	1.327E+05	1.213E+05
7.4720E+00	9.310E+04	9.845E+04	1.067E+05	1.142E+05	1.212E+05
7.6490E+00	8.751E+04	9.270E+04	1.004E+05	1.073E+05	1.140E+05
8.0410E+00	7.667E+04	8.152E+04	8.812E+04	9.409E+04	1.001E+05
8.2650E+00	7.126E+04	7.587E+04	8.197E+04	8.748E+04	9.317E+04
8.6310E+00	6.348E+04	6.775E+04	7.314E+04	7.798E+04	8.316E+04
8.9050E+00	5.841E+04	6.244E+04	6.737E+04	7.178E+04	7.661E+04
9.5720E+00	4.820E+04	5.172E+04	5.573E+04	5.928E+04	6.340E+04
1.7444E+01	9.665E+03	1.046E+04	1.130E+04	1.188E+04	1.277E+04
1.9608E+01	7.071E+03	7.635E+03	8.267E+03	8.679E+03	9.316E+03
2.0169E+01	6.557E+03	7.074E+03	7.665E+03	8.044E+03	8.631E+03
2.1125E+01	5.788E+03	6.229E+03	6.764E+03	7.092E+03	7.602E+03
2.2105E+01	5.123E+03	5.501E+03	5.984E+03	6.271E+03	6.714E+03
2.2724E+01	4.756E+03	5.101E+03	5.555E+03	5.819E+03	6.226E+03
2.3819E+01	4.193E+03	4.485E+03	4.894E+03	5.123E+03	5.476E+03
2.4942E+01	3.707E+03	3.956E+03	4.325E+03	4.525E+03	4.830E+03

Table II (continued).

KEY	61 PROMETHIUM	62 SAMARIUM	63 EUROPIUM	64 GADOLINIUM	65 TERBIUM
4.5090E+00	1.109E+05	1.180E+05	1.269E+05	1.333E+05	1.440E+05
4.9320E+00	8.816E+04	9.361E+04	1.005E+05	1.058E+05	1.139E+05
5.4120E+00	6.950E+04	7.368E+04	7.892E+04	8.328E+04	8.942E+04
5.8950E+00	5.587E+04	5.913E+04	6.323E+04	6.686E+04	7.160E+04
5.9470E+00	5.463E+04	5.781E+04	6.180E+04	6.537E+04	6.998E+04
6.4000E+00	4.530E+04	4.788E+04	5.110E+04	5.415E+04	5.784E+04
6.4900E+00	1.161E+05	4.620E+04	4.929E+04	5.225E+04	5.578E+04
6.9250E+00	9.797E+04	1.028E+05	4.169E+04	4.426E+04	4.716E+04
7.0580E+00	1.309E+05	9.788E+04	1.060E+05	4.216E+04	4.490E+04
7.4720E+00	1.306E+05	1.185E+05	9.120E+04	9.632E+04	3.876E+04
7.6490E+00	1.228E+05	1.115E+05	1.204E+05	9.056E+04	9.687E+04
8.0410E+00	1.077E+05	1.132E+05	1.055E+05	1.114E+05	8.494E+04
8.2650E+00	1.001E+05	1.053E+05	1.135E+05	1.037E+05	1.109E+05
8.6310E+00	8.921E+04	9.397E+04	1.012E+05	1.070E+05	9.896E+04
8.9050E+00	8.211E+04	8.654E+04	9.314E+04	9.853E+04	1.055E+05
9.5720E+00	6.780E+04	7.157E+04	7.689E+04	8.135E+04	8.716E+04
1.7444E+01	1.355E+04	1.447E+04	1.544E+04	1.640E+04	1.762E+04
1.9608E+01	9.891E+03	1.059E+04	1.129E+04	1.200E+04	1.290E+04
2.0169E+01	9.165E+03	9.819E+03	1.047E+04	1.113E+04	1.196E+04
2.1125E+01	8.077E+03	8.663E+03	9.240E+03	9.825E+03	1.056E+04
2.2105E+01	7.139E+03	7.664E+03	8.177E+03	8.698E+03	9.345E+03
2.2724E+01	6.623E+03	7.114E+03	7.592E+03	8.076E+03	8.677E+03
2.3819E+01	5.829E+03	6.268E+03	6.691E+03	7.119E+03	7.649E+03
2.4942E+01	5.145E+03	5.538E+03	5.914E+03	6.294E+03	6.762E+03

Table II (continued).

KEY	66 DYSPROSIUM	67 HOLMIUM	68 ERBIUM	69 THULIUM	70 YTERBIUM
4.5090E+00	1.532E+05	1.613E+05	1.709E+05	1.806E+05	1.908E+05
4.9320E+00	1.210E+05	1.272E+05	1.348E+05	1.424E+05	1.504E+05
5.4120E+00	9.491E+04	9.949E+04	1.055E+05	1.114E+05	1.177E+05
5.8950E+00	7.591E+04	7.940E+04	8.418E+04	8.886E+04	9.390E+04
5.9470E+00	7.419E+04	7.759E+04	8.225E+04	8.683E+04	9.175E+04
6.4000E+00	6.126E+04	6.394E+04	6.789E+04	7.155E+04	7.561E+04
6.4900E+00	5.907E+04	6.164E+04	6.535E+04	6.897E+04	7.289E+04
6.9250E+00	4.990E+04	5.198E+04	5.512E+04	5.815E+04	6.146E+04
7.0580E+00	4.749E+04	4.945E+04	5.244E+04	5.532E+04	5.847E+04
7.4720E+00	4.096E+04	4.259E+04	4.517E+04	4.764E+04	5.036E+04
7.6490E+00	3.855E+04	4.006E+04	4.249E+04	4.481E+04	4.737E+04
8.0410E+00	9.083E+04	3.516E+04	3.730E+04	3.932E+04	4.157E+04
8.2650E+00	8.443E+04	9.122E+04	3.471E+04	3.660E+04	3.869E+04
8.6310E+00	1.056E+05	8.114E+04	8.825E+04	3.269E+04	3.455E+04
8.9050E+00	9.719E+04	7.457E+04	8.103E+04	8.090E+04	3.185E+04
9.5720E+00	9.281E+04	9.968E+04	9.332E+04	6.692E+04	6.651E+04
1.7444E+01	1.859E+04	1.975E+04	2.105E+04	2.215E+04	2.305E+04
1.9608E+01	1.359E+04	1.445E+04	1.530E+04	1.625E+04	1.701E+04
2.0169E+01	1.260E+04	1.340E+04	1.417E+04	1.508E+04	1.581E+04
2.1125E+01	1.113E+04	1.184E+04	1.251E+04	1.333E+04	1.399E+04
2.2105E+01	9.853E+03	1.049E+04	1.106E+04	1.181E+04	1.241E+04
2.2724E+01	9.150E+03	9.746E+03	1.027E+04	1.098E+04	1.154E+04
2.3819E+01	8.068E+03	8.599E+03	9.047E+03	9.688E+03	1.020E+04
2.4942E+01	7.134E+03	7.609E+03	7.993E+03	8.575E+03	9.037E+03

Table II (continued).

KEV	71 EUTETIUM	72 HAENIUM	73 TANTALUM	74 TUNGSTEN	75 RHENIUM
4.5090E+00	2.022E+05	2.135E+05	2.211E+05	2.300E+05	2.462E+05
4.9320E+00	1.595E+05	1.685E+05	1.745E+05	1.825E+05	1.950E+05
5.4120E+00	1.248E+05	1.319E+05	1.367E+05	1.436E+05	1.532E+05
5.8950E+00	9.964E+04	1.053E+05	1.092E+05	1.153E+05	1.227E+05
5.9470E+00	9.736E+04	1.029E+05	1.067E+05	1.127E+05	1.200E+05
6.4000E+00	8.027E+04	8.487E+04	8.801E+04	9.335E+04	9.922E+04
6.4900E+00	7.737E+04	8.182E+04	8.485E+04	9.006E+04	9.570E+04
6.9250E+00	6.526E+04	6.903E+04	7.161E+04	7.626E+04	8.095E+04
7.0580E+00	6.209E+04	6.568E+04	6.814E+04	7.264E+04	7.707E+04
7.4720E+00	5.349E+04	5.659E+04	5.873E+04	6.279E+04	6.655E+04
7.6490E+00	5.032E+04	5.324E+04	5.525E+04	5.914E+04	6.267E+04
8.1040E+00	4.417E+04	4.674E+04	4.853E+04	5.207E+04	5.512E+04
8.2650E+00	4.111E+04	4.352E+04	4.519E+04	4.855E+04	5.137E+04
8.6310E+00	3.673E+04	3.888E+04	4.038E+04	4.348E+04	4.597E+04
8.9050E+00	3.387E+04	3.585E+04	3.724E+04	4.016E+04	4.244E+04
9.5720E+00	7.164E+04	6.994E+04	3.090E+04	3.344E+04	3.529E+04
1.7444E+01	2.446E+04	2.559E+04	2.690E+04	2.924E+04	3.053E+04
1.9608E+01	1.803E+04	1.901E+04	1.985E+04	2.155E+04	2.241E+04
2.0169E+01	1.675E+04	1.769E+04	1.845E+04	2.001E+04	2.080E+04
2.1125E+01	1.482E+04	1.566E+04	1.634E+04	1.770E+04	1.840E+04
2.2105E+01	1.316E+04	1.391E+04	1.450E+04	1.569E+04	1.632E+04
2.2724E+01	1.223E+04	1.294E+04	1.349E+04	1.459E+04	1.517E+04
2.3819E+01	1.081E+04	1.144E+04	1.192E+04	1.288E+04	1.340E+04
2.4942E+01	9.584E+03	1.015E+04	1.057E+04	1.140E+04	1.187E+04

Table II (continued).

KEV	76 OSMIUM	77 IRIDIUM	78 PLATINUM	79 GOLD	80 MERCURY
4.5090E+00	2.604E+05	2.780E+05	3.027E+05	2.965E+05	3.192E+05
4.9320E+00	2.061E+05	2.197E+05	2.377E+05	2.358E+05	2.531E+05
5.4120E+00	1.618E+05	1.722E+05	1.852E+05	1.860E+05	1.991E+05
5.8950E+00	1.296E+05	1.377E+05	1.472E+05	1.496E+05	1.598E+05
5.9470E+00	1.267E+05	1.345E+05	1.438E+05	1.463E+05	1.562E+05
6.4000E+00	1.047E+05	1.111E+05	1.181E+05	1.213E+05	1.293E+05
6.4900E+00	1.010E+05	1.071E+05	1.138E+05	1.171E+05	1.247E+05
6.9250E+00	8.535E+04	9.043E+04	9.564E+04	9.931E+04	1.056E+05
7.0580E+00	8.125E+04	8.606E+04	9.090E+04	9.463E+04	1.006E+05
7.4720E+00	7.012E+04	7.421E+04	7.807E+04	8.190E+04	8.688E+04
7.6490E+00	6.601E+04	6.983E+04	7.334E+04	7.719E+04	8.183E+04
8.0410E+00	5.803E+04	6.135E+04	6.421E+04	6.803E+04	7.201E+04
8.2650E+00	5.407E+04	5.713E+04	5.968E+04	6.346E+04	6.713E+04
8.6310E+00	4.837E+04	5.106E+04	5.320E+04	5.689E+04	6.010E+04
8.9050E+00	4.464E+04	4.710E+04	4.897E+04	5.258E+04	5.549E+04
9.15720E+00	3.710E+04	3.909E+04	4.045E+04	4.385E+04	4.618E+04
1.7444E+01	3.166E+04	3.299E+04	3.513E+04	3.645E+04	3.821E+04
1.9608E+01	2.341E+04	2.464E+04	2.593E+04	2.696E+04	2.841E+04
2.0169E+01	2.176E+04	2.295E+04	2.415E+04	2.506E+04	2.644E+04
2.1125E+01	1.928E+04	2.036E+04	2.138E+04	2.220E+04	2.345E+04
2.2105E+01	1.713E+04	1.811E+04	1.898E+04	1.971E+04	2.086E+04
2.2724E+01	1.594E+04	1.687E+04	1.765E+04	1.834E+04	1.942E+04
2.3819E+01	1.410E+04	1.494E+04	1.560E+04	1.622E+04	1.720E+04
2.4942E+01	1.251E+04	1.327E+04	1.383E+04	1.439E+04	1.528E+04

Table II (continued).

KEY	81			82			83			84			85		
	THALLIUM			LEAD			BISMUTH								
4.5090E+00	3.362E+05	3.560E+05	3.698E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9320E+00	2.664E+05	2.821E+05	2.938E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.4120E+00	2.094E+05	2.217E+05	2.315E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8950E+00	1.678E+05	1.777E+05	1.860E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9470E+00	1.640E+05	1.737E+05	1.819E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
6.4000E+00	1.357E+05	1.437E+05	1.508E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
6.4900E+00	1.309E+05	1.386E+05	1.455E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
6.9250E+00	1.107E+05	1.172E+05	1.233E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
7.0580E+00	1.054E+05	1.116E+05	1.174E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
7.4720E+00	9.106E+04	9.640E+04	1.015E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
7.6490E+00	8.575E+04	9.077E+04	9.570E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
8.0410E+00	7.543E+04	7.984E+04	8.429E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
8.2650E+00	7.029E+04	7.440E+04	7.860E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
8.6310E+00	6.290E+04	6.658E+04	7.042E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
8.9050E+00	5.807E+04	6.146E+04	6.505E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
9.5720E+00	4.828E+04	5.110E+04	5.419E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.7444E+01	4.053E+04	4.223E+04	4.368E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.9608E+01	2.995E+04	3.115E+04	3.245E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.0169E+01	2.784E+04	2.894E+04	3.019E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.1125E+01	2.467E+04	2.563E+04	2.680E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.2105E+01	2.191E+04	2.276E+04	2.385E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.2724E+01	2.039E+04	2.117E+04	2.222E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.3819E+01	1.804E+04	1.871E+04	1.969E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.4942E+01	1.600E+04	1.659E+04	1.750E+04	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Table II (continued).

KEV	86			87	88			89	90		
	RACON				THORIUM						
4.5090E+00	4.326E+05	0.	0.	0.	0.	0.	0.	0.	4.231E+05	4.231E+05	
4.9320E+00	3.429E+05	0.	0.	0.	0.	0.	0.	0.	3.824E+05	3.824E+05	
5.4120E+00	2.696E+05	0.	0.	0.	0.	0.	0.	0.	3.252E+05	3.252E+05	
5.8950E+00	2.161E+05	0.	0.	0.	0.	0.	0.	0.	2.612E+05	2.612E+05	
5.9470E+00	2.113E+05	0.	0.	0.	0.	0.	0.	0.	2.554E+05	2.554E+05	
6.4000E+00	1.748E+05	0.	0.	0.	0.	0.	0.	0.	2.116E+05	2.116E+05	
6.4900E+00	1.686E+05	0.	0.	0.	0.	0.	0.	0.	2.042E+05	2.042E+05	
6.9250E+00	1.427E+05	0.	0.	0.	0.	0.	0.	0.	1.730E+05	1.730E+05	
7.0580E+00	1.359E+05	0.	0.	0.	0.	0.	0.	0.	1.648E+05	1.648E+05	
7.4720E+00	1.173E+05	0.	0.	0.	0.	0.	0.	0.	1.425E+05	1.425E+05	
7.6490E+00	1.105E+05	0.	0.	0.	0.	0.	0.	0.	1.342E+05	1.342E+05	
8.0410E+00	9.719E+04	0.	0.	0.	0.	0.	0.	0.	1.182E+05	1.182E+05	
8.2650E+00	9.058E+04	0.	0.	0.	0.	0.	0.	0.	1.102E+05	1.102E+05	
8.6310E+00	8.106E+04	0.	0.	0.	0.	0.	0.	0.	9.868E+04	9.868E+04	
8.9050E+00	7.483E+04	0.	0.	0.	0.	0.	0.	0.	9.114E+04	9.114E+04	
9.5720E+00	6.222E+04	0.	0.	0.	0.	0.	0.	0.	7.588E+04	7.588E+04	
1.7444E+01	4.318E+04	0.	0.	0.	0.	0.	0.	0.	3.832E+04	3.832E+04	
1.9608E+01	3.713E+04	0.	0.	0.	0.	0.	0.	0.	2.825E+04	2.825E+04	
2.0169E+01	3.457E+04	0.	0.	0.	0.	0.	0.	0.	3.660E+04	3.660E+04	
2.1125E+01	3.070E+04	0.	0.	0.	0.	0.	0.	0.	3.744E+04	3.744E+04	
2.2105E+01	2.733E+04	0.	0.	0.	0.	0.	0.	0.	3.324E+04	3.324E+04	
2.2724E+01	2.546E+04	0.	0.	0.	0.	0.	0.	0.	3.092E+04	3.092E+04	
2.3819E+01	2.258E+04	0.	0.	0.	0.	0.	0.	0.	2.733E+04	2.733E+04	
2.4942E+01	2.007E+04	0.	0.	0.	0.	0.	0.	0.	2.422E+04	2.422E+04	

Table II (continued).

KEY	91			92		93		94		95	
				URANIUM				PLUTONIUM			
4.5090E+00	0.			4.284E+05		0.		3.810E+05		0.	
4.9320E+00	0.			3.409E+05		0.		4.060E+05		0.	
5.4120E+00	0.			3.060E+05		0.		3.189E+05		0.	
5.8950E+00	0.			2.657E+05		0.		2.904E+05		0.	
5.9470E+00	0.			2.598E+05		0.		3.063E+05		0.	
6.4000E+00	0.			2.156E+05		0.		2.531E+05		0.	
6.4900E+00	0.			2.080E+05		0.		2.441E+05		0.	
6.9250E+00	0.			1.765E+05		0.		2.063E+05		0.	
7.0580E+00	0.			1.681E+05		0.		1.964E+05		0.	
7.4720E+00	0.			1.455E+05		0.		1.694E+05		0.	
7.6490E+00	0.			1.372E+05		0.		1.594E+05		0.	
8.0410E+00	0.			1.209E+05		0.		1.401E+05		0.	
8.2650E+00	0.			1.127E+05		0.		1.305E+05		0.	
8.6310E+00	0.			1.010E+05		0.		1.167E+05		0.	
8.9050E+00	0.			9.338E+04		0.		1.077E+05		0.	
9.6720E+00	0.			7.783E+04		0.		8.939E+04		0.	
1.7444E+01	0.			3.822E+04		0.		1.939E+04		0.	
1.9608E+01	0.			2.872E+04		0.		3.136E+04		0.	
2.0169E+01	0.			2.680E+04		0.		2.926E+04		0.	
2.1125E+01	0.			3.330E+04		0.		2.609E+04		0.	
2.2105E+01	0.			3.436E+04		0.		2.333E+04		0.	
2.2724E+01	0.			3.207E+04		0.		3.032E+04		0.	
2.3819E+01	0.			2.850E+04		0.		3.110E+04		0.	
2.4942E+01	0.			2.540E+04		0.		2.769E+04		0.	

Table III. Total cross section in cm^2/g

KEV					
	1 HYDROGEN	2 HELIUM	3 LITHIUM	4 BERYLLIUM	5 BORON
4.5090E+00	4.323E-01	6.607E-01	2.102E+00	5.625E+00	1.285E+01
4.9320E+00	4.206E-01	5.503E-01	1.617E+00	4.249E+00	9.693E+00
5.4120E+00	4.116E-01	4.648E-01	1.243E+00	3.183E+00	7.232E+00
5.8950E+00	4.052E-01	4.054E-01	9.863E-01	2.452E+00	5.534E+00
5.9470E+00	4.046E-01	4.001E-01	9.639E-01	2.388E+00	5.385E+00
6.4000E+00	4.003E-01	3.616E-01	7.977E-01	1.916E+00	4.282E+00
6.4900E+00	3.996E-01	3.553E-01	7.704E-01	1.839E+00	4.100E+00
6.9250E+00	3.966E-01	3.288E-01	6.590E-01	1.522E+00	3.357E+00
7.0580E+00	3.958E-01	3.219E-01	6.306E-01	1.442E+00	3.168E+00
7.4720E+00	3.936E-01	3.034E-01	5.554E-01	1.228E+00	2.665E+00
7.6490E+00	3.928E-01	2.966E-01	5.283E-01	1.152E+00	2.485E+00
8.0410E+00	3.912E-01	2.835E-01	4.770E-01	1.007E+00	2.142E+00
8.2650E+00	3.903E-01	2.772E-01	4.518E-01	9.363E-01	1.975E+00
8.6310E+00	3.891E-01	2.682E-01	4.165E-01	8.373E-01	1.740E+00
8.9050E+00	3.882E-01	2.623E-01	3.939E-01	7.742E-01	1.590E+00
9.5720E+00	3.864E-01	2.503E-01	3.494E-01	6.509E-01	1.297E+00
1.7444E+01	3.727E-01	2.019E-01	1.969E-01	2.451E-01	3.451E-01
1.9608E+01	3.699E-01	1.972E-01	1.866E-01	2.216E-01	2.928E-01
2.0169E+01	3.692E-01	1.961E-01	1.845E-01	2.170E-01	2.827E-01
2.1125E+01	3.677E-01	1.946E-01	1.815E-01	2.104E-01	2.683E-01
2.2105E+01	3.663E-01	1.931E-01	1.789E-01	2.047E-01	2.558E-01
2.2724E+01	3.655E-01	1.923E-01	1.773E-01	2.014E-01	2.490E-01
2.3819E+01	3.640E-01	1.908E-01	1.748E-01	1.964E-01	2.385E-01
2.4942E+01	3.626E-01	1.894E-01	1.726E-01	1.920E-01	2.294E-01

Table III (continued).

KEV	7				8				9				10			
	CARBON				NITROGEN				OXYGEN				FLORINE			
4.5090E+00	2.560E+01	4.256E+01	6.479E+01	9.176E+01	1.248E+02											
4.9320E+00	1.936E+01	3.259E+01	4.940E+01	7.030E+01	9.588E+01											
5.4120E+00	1.446E+01	2.442E+01	3.719E+01	5.314E+01	7.271E+01											
5.8950E+00	1.106E+01	1.873E+01	2.864E+01	4.106E+01	5.636E+01											
5.9470E+00	1.076E+01	1.823E+01	2.788E+01	3.999E+01	5.491E+01											
6.4000E+00	8.547E+00	1.449E+01	2.223E+01	3.196E+01	4.400E+01											
6.4900E+00	8.181E+00	1.387E+01	2.129E+01	3.062E+01	4.218E+01											
6.9250E+00	6.683E+00	1.133E+01	1.744E+01	2.512E+01	3.469E+01											
7.0580E+00	6.299E+00	1.068E+01	1.645E+01	2.371E+01	3.275E+01											
7.4720E+00	5.282E+00	8.955E+00	1.381E+01	1.993E+01	2.759E+01											
7.6490E+00	4.916E+00	8.330E+00	1.285E+01	1.857E+01	2.572E+01											
8.0410E+00	4.219E+00	7.142E+00	1.103E+01	1.595E+01	2.213E+01											
8.2650E+00	3.878E+00	6.560E+00	1.014E+01	1.466E+01	2.036E+01											
8.6310E+00	3.399E+00	5.740E+00	8.873E+00	1.283E+01	1.785E+01											
8.9050E+00	3.093E+00	5.215E+00	8.062E+00	1.166E+01	1.624E+01											
9.5720E+00	2.493E+00	4.186E+00	6.468E+00	9.355E+00	1.305E+01											
1.7444E+01	5.348E-01	7.898E-01	1.147E+00	1.584E+00	2.209E+00											
1.9608E+01	4.285E-01	6.054E-01	8.545E-01	1.154E+00	1.597E+00											
2.0169E+01	4.082E-01	5.702E-01	7.985E-01	1.072E+00	1.479E+00											
2.1125E+01	3.788E-01	5.191E-01	7.171E-01	9.523E-01	1.308E+00											
2.2105E+01	3.527E-01	4.756E-01	6.479E-01	8.507E-01	1.163E+00											
2.2724E+01	3.400E-01	4.519E-01	6.102E-01	7.954E-01	1.083E+00											
2.3819E+01	3.191E-01	4.158E-01	5.529E-01	7.114E-01	9.629E-01											
2.4942E+01	3.011E-01	3.851E-01	5.041E-01	6.401E-01	8.605E-01											

Table III (continued).

KEY	11				12				13				14				15			
	SODIUM				MAGNESIUM				ALUMINUM				SILICON				PHOSPHORUS			
4.5090E+00	1.675E+02	2.204E+02	2.64E+02	3.360E+02	2.204E+02	2.204E+02	2.204E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	3.360E+02	3.360E+02	3.360E+02	3.360E+02	3.360E+02	3.863E+02	3.863E+02	3.863E+02	3.863E+02
4.9320E+00	1.293E+02	1.710E+02	1.710E+02	2.629E+02	1.710E+02	1.710E+02	1.710E+02	2.058E+02	2.058E+02	2.058E+02	2.058E+02	2.629E+02	2.629E+02	2.629E+02	2.629E+02	2.629E+02	3.039E+02	3.039E+02	3.039E+02	3.039E+02
5.4120E+00	9.848E+01	1.308E+02	1.308E+02	2.027E+02	1.308E+02	1.308E+02	1.308E+02	1.580E+02	1.580E+02	1.580E+02	1.580E+02	2.027E+02	2.027E+02	2.027E+02	2.027E+02	2.027E+02	2.355E+02	2.355E+02	2.355E+02	2.355E+02
5.8950E+00	7.661E+01	1.022E+02	1.022E+02	1.595E+02	1.022E+02	1.022E+02	1.022E+02	1.238E+02	1.238E+02	1.238E+02	1.238E+02	1.595E+02	1.595E+02	1.595E+02	1.595E+02	1.595E+02	1.860E+02	1.860E+02	1.860E+02	1.860E+02
5.9470E+00	7.466E+01	9.962E+01	9.962E+01	1.556E+02	9.962E+01	9.962E+01	9.962E+01	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.556E+02	1.556E+02	1.556E+02	1.556E+02	1.556E+02	1.816E+02	1.816E+02	1.816E+02	1.816E+02
6.4000E+00	5.994E+01	8.021E+01	8.021E+01	1.260E+02	8.021E+01	8.021E+01	8.021E+01	9.754E+01	9.754E+01	9.754E+01	9.754E+01	1.260E+02	1.260E+02	1.260E+02	1.260E+02	1.260E+02	1.476E+02	1.476E+02	1.476E+02	1.476E+02
6.4900E+00	5.749E+01	7.697E+01	7.697E+01	1.210E+02	7.697E+01	7.697E+01	7.697E+01	9.365E+01	9.365E+01	9.365E+01	9.365E+01	1.210E+02	1.210E+02	1.210E+02	1.210E+02	1.210E+02	1.418E+02	1.418E+02	1.418E+02	1.418E+02
6.9250E+00	4.734E+01	6.354E+01	6.354E+01	1.004E+02	6.354E+01	6.354E+01	6.354E+01	7.754E+01	7.754E+01	7.754E+01	7.754E+01	1.004E+02	1.004E+02	1.004E+02	1.004E+02	1.004E+02	1.180E+02	1.180E+02	1.180E+02	1.180E+02
7.0580E+00	4.473E+01	6.006E+01	6.006E+01	9.507E+01	6.006E+01	6.006E+01	6.006E+01	7.337E+01	7.337E+01	7.337E+01	7.337E+01	9.507E+01	9.507E+01	9.507E+01	9.507E+01	9.507E+01	1.118E+02	1.118E+02	1.118E+02	1.118E+02
7.4720E+00	3.773E+01	5.077E+01	5.077E+01	8.069E+01	5.077E+01	5.077E+01	5.077E+01	6.217E+01	6.217E+01	6.217E+01	6.217E+01	8.069E+01	8.069E+01	8.069E+01	8.069E+01	8.069E+01	9.515E+01	9.515E+01	9.515E+01	9.515E+01
7.6490E+00	3.518E+01	4.738E+01	4.738E+01	7.544E+01	4.738E+01	4.738E+01	4.738E+01	5.808E+01	5.808E+01	5.808E+01	5.808E+01	7.544E+01	7.544E+01	7.544E+01	7.544E+01	7.544E+01	8.905E+01	8.905E+01	8.905E+01	8.905E+01
8.0410E+00	3.030E+01	4.088E+01	4.088E+01	6.532E+01	4.088E+01	4.088E+01	4.088E+01	5.023E+01	5.023E+01	5.023E+01	5.023E+01	6.532E+01	6.532E+01	6.532E+01	6.532E+01	6.532E+01	7.728E+01	7.728E+01	7.728E+01	7.728E+01
8.2650E+00	2.787E+01	3.764E+01	3.764E+01	6.024E+01	3.764E+01	3.764E+01	3.764E+01	4.630E+01	4.630E+01	4.630E+01	4.630E+01	6.024E+01	6.024E+01	6.024E+01	6.024E+01	6.024E+01	7.134E+01	7.134E+01	7.134E+01	7.134E+01
8.6310E+00	2.444E+01	3.304E+01	3.304E+01	5.303E+01	3.304E+01	3.304E+01	3.304E+01	4.073E+01	4.073E+01	4.073E+01	4.073E+01	5.303E+01	5.303E+01	5.303E+01	5.303E+01	5.303E+01	6.290E+01	6.290E+01	6.290E+01	6.290E+01
8.9050E+00	2.223E+01	3.008E+01	3.008E+01	4.837E+01	3.008E+01	3.008E+01	3.008E+01	3.714E+01	3.714E+01	3.714E+01	3.714E+01	4.837E+01	4.837E+01	4.837E+01	4.837E+01	4.837E+01	5.744E+01	5.744E+01	5.744E+01	5.744E+01
9.5720E+00	1.787E+01	2.422E+01	2.422E+01	3.912E+01	2.422E+01	2.422E+01	2.422E+01	3.001E+01	3.001E+01	3.001E+01	3.001E+01	3.912E+01	3.912E+01	3.912E+01	3.912E+01	3.912E+01	4.658E+01	4.658E+01	4.658E+01	4.658E+01
1.7444E+01	2.939E+00	3.979E+00	3.979E+00	6.533E+00	3.979E+00	3.979E+00	3.979E+00	5.043E+00	5.043E+00	5.043E+00	5.043E+00	6.533E+00	6.533E+00	6.533E+00	6.533E+00	6.533E+00	7.870E+00	7.870E+00	7.870E+00	7.870E+00
1.9608E+01	2.098E+00	2.825E+00	2.825E+00	4.624E+00	2.825E+00	2.825E+00	2.825E+00	3.585E+00	3.585E+00	3.585E+00	3.585E+00	4.624E+00	4.624E+00	4.624E+00	4.624E+00	4.624E+00	5.569E+00	5.569E+00	5.569E+00	5.569E+00
2.0169E+01	1.937E+00	2.604E+00	2.604E+00	4.256E+00	2.604E+00	2.604E+00	2.604E+00	3.304E+00	3.304E+00	3.304E+00	3.304E+00	4.256E+00	4.256E+00	4.256E+00	4.256E+00	4.256E+00	5.125E+00	5.125E+00	5.125E+00	5.125E+00
2.1125E+01	1.701E+00	2.280E+00	2.280E+00	3.714E+00	2.280E+00	2.280E+00	2.280E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00	3.714E+00	3.714E+00	3.714E+00	3.714E+00	3.714E+00	4.468E+00	4.468E+00	4.468E+00	4.468E+00
2.2105E+01	1.501E+00	2.004E+00	2.004E+00	3.254E+00	2.004E+00	2.004E+00	2.004E+00	2.540E+00	2.540E+00	2.540E+00	2.540E+00	3.254E+00	3.254E+00	3.254E+00	3.254E+00	3.254E+00	3.911E+00	3.911E+00	3.911E+00	3.911E+00
2.2724E+01	1.393E+00	1.855E+00	1.855E+00	3.003E+00	1.855E+00	1.855E+00	1.855E+00	2.349E+00	2.349E+00	2.349E+00	2.349E+00	3.003E+00	3.003E+00	3.003E+00	3.003E+00	3.003E+00	3.607E+00	3.607E+00	3.607E+00	3.607E+00
2.3819E+01	1.228E+00	1.628E+00	1.628E+00	2.623E+00	1.628E+00	1.628E+00	1.628E+00	2.053E+00	2.053E+00	2.053E+00	2.053E+00	2.623E+00	2.623E+00	2.623E+00	2.623E+00	2.623E+00	3.146E+00	3.146E+00	3.146E+00	3.146E+00
2.4942E+01	1.088E+00	1.436E+00	1.436E+00	2.301E+00	1.436E+00	1.436E+00	1.436E+00	1.812E+00	1.812E+00	1.812E+00	1.812E+00	2.301E+00	2.301E+00	2.301E+00	2.301E+00	2.301E+00	2.755E+00	2.755E+00	2.755E+00	2.755E+00

Table III (continued).

KEV	16		17		18		19		20	
	SULFUR	CHLORINE	ARGON	POTASSIUM	CALCIUM					
4.5090E+00	4.642E+02	5.181E+02	5.769E+02	6.787E+02	8.045E+02					
4.9320E+00	3.642E+02	4.111E+02	4.562E+02	5.424E+02	6.383E+02					
5.4120E+00	2.819E+02	3.215E+02	3.555E+02	4.268E+02	4.996E+02					
5.8950E+00	2.226E+02	2.561E+02	2.824E+02	3.419E+02	3.984E+02					
5.9470E+00	2.172E+02	2.502E+02	2.758E+02	3.342E+02	3.893E+02					
6.4000E+00	1.766E+02	2.046E+02	2.251E+02	2.745E+02	3.190E+02					
6.4900E+00	1.697E+02	1.969E+02	2.165E+02	2.644E+02	3.071E+02					
6.9250E+00	1.412E+02	1.647E+02	1.809E+02	2.220E+02	2.574E+02					
7.0580E+00	1.338E+02	1.563E+02	1.715E+02	2.109E+02	2.444E+02					
7.4720E+00	1.139E+02	1.336E+02	1.465E+02	1.809E+02	2.093E+02					
7.6490E+00	1.066E+02	1.253E+02	1.373E+02	1.699E+02	1.964E+02					
8.0410E+00	9.253E+01	1.092E+02	1.195E+02	1.484E+02	1.714E+02					
8.2650E+00	8.547E+01	1.010E+02	1.105E+02	1.375E+02	1.588E+02					
8.6310E+00	7.541E+01	8.935E+01	9.765E+01	1.219E+02	1.407E+02					
8.9050E+00	6.890E+01	8.179E+01	8.934E+01	1.117E+02	1.290E+02					
9.5720E+00	5.594E+01	6.668E+01	7.274E+01	9.136E+01	1.055E+02					
1.1744E+01	9.625E+00	1.164E+01	1.262E+01	1.620E+01	1.900E+01					
1.9608E+01	6.835E+00	8.261E+00	8.949E+00	1.151E+01	1.356E+01					
2.0169E+01	6.295E+00	7.605E+00	8.237E+00	1.060E+01	1.250E+01					
2.1125E+01	5.496E+00	6.632E+00	7.180E+00	9.240E+00	1.092E+01					
2.2105E+01	4.816E+00	5.803E+00	6.280E+00	8.080E+00	9.573E+00					
2.2724E+01	4.445E+00	5.351E+00	5.790E+00	7.448E+00	8.836E+00					
2.3819E+01	3.881E+00	4.663E+00	5.044E+00	6.486E+00	7.711E+00					
2.4942E+01	3.401E+00	4.079E+00	4.409E+00	5.667E+00	6.752E+00					

Table III (continued).

KEY	21			22			23			24			25		
	SCANDIUM			TITANIUM			VANADIUM			CHROMIUM			MANGANESE		
4.15090E+00	8.194E+02	1.114E+02	1.249E+02	1.114E+02	8.680E+01	9.733E+01	1.428E+02	1.600E+02	1.247E+02	1.113E+02	8.571E+01	7.559E+01	1.600E+02	1.247E+02	1.113E+02
4.9320E+00	6.578E+02	5.209E+02	4.198E+02	4.490E+02	3.701E+02	3.962E+02	3.327E+02	3.750E+02	4.051E+02	3.566E+02	3.066E+02	3.312E+02	3.852E+02	3.312E+02	3.852E+02
5.4120E+00	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02
5.8950E+00	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02
5.9470E+00	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02	4.198E+02
6.4000E+00	3.389E+02	3.701E+02	3.962E+02	3.701E+02	3.962E+02	3.327E+02	3.750E+02	4.051E+02	3.566E+02	3.066E+02	3.312E+02	3.852E+02	3.312E+02	3.852E+02	3.312E+02
6.4900E+00	3.267E+02	3.567E+02	3.005E+02	3.567E+02	3.005E+02	2.857E+02	2.458E+02	2.310E+02	2.024E+02	1.878E+02	1.669E+02	1.532E+02	1.408E+02	1.156E+02	1.104E+01
6.9250E+00	2.755E+02	2.621E+02	2.256E+02	2.621E+02	2.256E+02	2.122E+02	1.860E+02	1.726E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01
7.0580E+00	2.621E+02	2.256E+02	2.122E+02	2.256E+02	2.122E+02	2.122E+02	1.860E+02	1.726E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01
7.4720E+00	2.256E+02	2.122E+02	2.122E+02	2.122E+02	2.122E+02	2.122E+02	1.860E+02	1.726E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01
7.6490E+00	2.122E+02	1.860E+02	1.726E+02	1.860E+02	1.726E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01
8.0410E+00	1.860E+02	1.726E+02	1.533E+02	1.726E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01
8.2650E+00	1.726E+02	1.533E+02	1.408E+02	1.533E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01	1.205E+01
8.6310E+00	1.533E+02	1.408E+02	1.156E+02	1.408E+02	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01
8.9050E+00	1.408E+02	1.156E+02	1.104E+01	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01
9.5720E+00	1.156E+02	1.104E+01	1.500E+01	1.156E+02	1.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01
1.7444E+01	2.104E+01	1.500E+01	1.382E+01	2.104E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01	1.205E+01
1.9608E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01
2.0169E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.500E+01	1.382E+01	1.205E+01	1.205E+01
2.1125E+01	1.205E+01	1.054E+01	9.723E+00	1.205E+01	1.054E+01	9.723E+00	8.469E+00	7.402E+00	6.4942E+01	5.8950E+00	5.4120E+00	4.9320E+00	4.1509E+00	3.389E+02	3.267E+02
2.2105E+01	1.054E+01	9.723E+00	8.469E+00	1.054E+01	9.723E+00	8.469E+00	7.402E+00	6.4942E+01	5.8950E+00	5.4120E+00	4.9320E+00	4.1509E+00	3.389E+02	3.267E+02	3.005E+02
2.2724E+01	9.723E+00	8.469E+00	7.402E+00	9.723E+00	8.469E+00	7.402E+00	6.4942E+01	5.8950E+00	5.4120E+00	4.9320E+00	4.1509E+00	3.389E+02	3.267E+02	3.005E+02	2.857E+02
2.3819E+01	8.469E+00	7.402E+00	6.4942E+01	8.469E+00	7.402E+00	6.4942E+01	5.8950E+00	5.4120E+00	4.9320E+00	4.1509E+00	3.389E+02	3.267E+02	3.005E+02	2.857E+02	2.458E+02
2.4942E+01	7.402E+00	6.4942E+01	5.8950E+00	7.402E+00	6.4942E+01	5.8950E+00	5.4120E+00	4.9320E+00	4.1509E+00	3.389E+02	3.267E+02	3.005E+02	2.857E+02	2.458E+02	2.310E+02

Table III (continued).

KEV	26		27		28		29		30	
	IRON		COBALT		NICKEL		COPPER		ZINC	
4.5090E+00	1.883E+02		2.058E+02		2.398E+02		2.572E+02		2.800E+02	
4.9320E+00	1.469E+02		1.610E+02		1.879E+02		2.009E+02		2.203E+02	
5.4120E+00	1.131E+02		1.246E+02		1.457E+02		1.552E+02		1.717E+02	
5.8950E+00	8.894E+01		9.841E+01		1.152E+02		1.225E+02		1.366E+02	
5.9470E+00	8.677E+01		9.606E+01		1.125E+02		1.195E+02		1.335E+02	
6.4000E+00	7.040E+01		7.829E+01		9.175E+01		9.736E+01		1.096E+02	
6.4900E+00	6.765E+01		7.530E+01		8.827E+01		9.363E+01		1.056E+02	
6.9250E+00	5.625E+01		6.286E+01		7.375E+01		7.811E+01		8.871E+01	
7.0580E+00	5.329E+01		5.963E+01		6.997E+01		7.407E+01		8.430E+01	
7.4720E+00	3.665E+02		5.091E+01		5.978E+01		6.320E+01		7.238E+01	
7.6490E+00	3.455E+02		4.771E+01		5.605E+01		5.922E+01		6.800E+01	
8.0410E+00	3.044E+02		3.386E+02		4.883E+01		5.154E+01		5.951E+01	
8.2650E+00	2.834E+02		3.149E+02		4.524E+01		4.772E+01		5.529E+01	
8.6310E+00	2.533E+02		2.809E+02		3.061E+02		4.228E+01		4.924E+01	
8.9050E+00	2.336E+02		2.587E+02		2.829E+02		3.874E+01		4.530E+01	
9.5720E+00	1.937E+02		2.138E+02		2.355E+02		2.453E+02		3.737E+01	
1.7444E+01	3.774E+01		4.102E+01		4.724E+01		4.934E+01		5.546E+01	
1.9608E+01	2.721E+01		2.951E+01		3.418E+01		3.577E+01		4.026E+01	
2.0169E+01	2.513E+01		2.724E+01		3.160E+01		3.308E+01		3.723E+01	
2.1125E+01	2.199E+01		2.384E+01		2.768E+01		2.902E+01		3.265E+01	
2.2105E+01	1.931E+01		2.092E+01		2.432E+01		2.552E+01		2.872E+01	
2.2724E+01	1.784E+01		1.932E+01		2.248E+01		2.361E+01		2.656E+01	
2.3819E+01	1.559E+01		1.688E+01		1.965E+01		2.067E+01		2.326E+01	
2.4942E+01	1.367E+01		1.479E+01		1.725E+01		1.815E+01		2.042E+01	

Table III (continued).

KEV	31 GALLIUM	32 GERMANIUM	33 ARSENIC	34 SELENIUM	35 BROMINE
4.15090E+00	3.091E+02	3.292E+02	3.675E+02	4.029E+02	4.351E+02
4.9320E+00	2.417E+02	2.578E+02	2.884E+02	3.167E+02	3.422E+02
5.4120E+00	1.869E+02	1.999E+02	2.243E+02	2.461E+02	2.662E+02
5.8950E+00	1.476E+02	1.583E+02	1.775E+02	1.950E+02	2.112E+02
5.9470E+00	1.440E+02	1.545E+02	1.733E+02	1.904E+02	2.062E+02
6.4000E+00	1.173E+02	1.264E+02	1.415E+02	1.555E+02	1.686E+02
6.4900E+00	1.128E+02	1.217E+02	1.362E+02	1.496E+02	1.623E+02
6.9250E+00	9.415E+01	1.020E+02	1.143E+02	1.251E+02	1.358E+02
7.0580E+00	8.929E+01	9.681E+01	1.082E+02	1.187E+02	1.290E+02
7.4720E+00	7.619E+01	8.290E+01	9.251E+01	1.014E+02	1.103E+02
7.6490E+00	7.139E+01	7.779E+01	8.675E+01	9.511E+01	1.035E+02
8.0410E+00	6.213E+01	6.792E+01	7.565E+01	8.289E+01	9.029E+01
8.2650E+00	5.751E+01	6.302E+01	7.010E+01	7.675E+01	8.367E+01
8.6310E+00	5.092E+01	5.601E+01	6.215E+01	6.800E+01	7.421E+01
8.9050E+00	4.665E+01	5.144E+01	5.701E+01	6.232E+01	6.807E+01
9.5720E+00	3.812E+01	4.229E+01	4.673E+01	5.097E+01	5.577E+01
1.7444E+01	5.690E+01	6.047E+01	6.597E+01	6.882E+01	7.468E+01
1.9608E+01	4.169E+01	4.426E+01	4.857E+01	5.123E+01	5.556E+01
2.0169E+01	3.864E+01	4.101E+01	4.506E+01	4.761E+01	5.167E+01
2.1125E+01	3.396E+01	3.605E+01	3.965E+01	4.205E+01	4.563E+01
2.2105E+01	2.993E+01	3.178E+01	3.500E+01	3.723E+01	4.041E+01
2.2724E+01	2.772E+01	2.943E+01	3.244E+01	3.457E+01	3.752E+01
2.3819E+01	2.432E+01	2.582E+01	2.853E+01	3.048E+01	3.308E+01
2.4942E+01	2.141E+01	2.273E+01	2.511E+01	2.694E+01	2.924E+01

Table III (continued).

KEV	36 KRYPTON	37 RUBIDIUM	38 STRONTIUM	39 YTTRIUM	40 ZIRCONIUM
4.5090E+00	4.643E+02	5.081E+02	5.521E+02	5.986E+02	6.478E+02
4.9320E+00	3.655E+02	4.003E+02	4.355E+02	4.725E+02	5.109E+02
5.4120E+00	2.846E+02	3.117E+C2	3.393E+02	3.689E+02	3.986E+02
5.8950E+00	2.260E+02	2.476E+02	2.696E+02	2.937E+02	3.171E+02
5.9470E+00	2.207E+02	2.418E+02	2.634E+02	2.869E+02	3.097E+02
6.4000E+00	1.807E+02	1.979E+02	2.154E+02	2.353E+02	2.538E+02
6.4900E+00	1.739E+02	1.905E+02	2.073E+02	2.266E+02	2.444E+02
6.9250E+00	1.457E+02	1.596E+02	1.735E+02	1.902E+02	2.049E+02
7.0580E+00	1.383E+02	1.516E+02	1.647E+02	1.806E+02	1.946E+02
7.4720E+00	1.185E+02	1.298E+02	1.409E+02	1.549E+02	1.668E+02
7.6490E+00	1.112E+02	1.218E+C2	1.322E+02	1.454E+02	1.566E+02
8.0410E+00	9.702E+01	1.063E+02	1.153E+02	1.271E+02	1.368E+02
8.2650E+00	8.994E+01	9.850E+01	1.068E+02	1.179E+02	1.268E+02
8.6310E+00	7.980E+01	8.739E+01	9.465E+01	1.048E+02	1.126E+02
8.9050E+00	7.322E+01	8.016E+C1	8.677E+01	9.619E+01	1.033E+02
9.5720E+00	6.003E+01	6.570E+01	7.099E+01	7.901E+01	8.477E+01
1.7444E+01	7.910E+01	8.300E+01	8.804E+01	9.756E+01	1.610E+01
1.9608E+01	5.864E+01	6.207E+01	6.559E+01	7.257E+01	7.520E+01
2.0169E+01	5.449E+01	5.779E+C1	6.103E+01	6.750E+01	7.007E+01
2.1125E+01	4.808E+01	5.111E+01	5.399E+01	5.971E+01	6.214E+01
2.2105E+01	4.253E+01	4.533E+01	4.789E+01	5.296E+01	5.524E+01
2.2724E+01	3.948E+01	4.214E+01	4.452E+01	4.923E+01	5.143E+01
2.3819E+01	3.477E+01	3.721E+01	3.931E+01	4.347E+01	4.552E+01
2.4942E+01	3.071E+01	3.294E+01	3.481E+01	3.849E+01	4.040E+01

Table III (continued).

KEY	43				44	45
	41	42	TECHNETIUM	RUTHENIUM		
	NIOBIUM	MOLYBDENUM				RHODIUM
4.5090E+00	6.969E+02	7.384E+02	7.858E+02	8.319E+02	8.920E+02	
4.9320E+00	5.521E+02	5.846E+02	6.212E+02	6.604E+02	7.079E+02	
5.4120E+00	4.319E+02	4.574E+02	4.855E+02	5.179E+02	5.552E+02	
5.8950E+00	3.443E+02	3.648E+02	3.869E+02	4.139E+02	4.438E+02	
5.9470E+00	3.364E+02	3.565E+02	3.780E+02	4.044E+02	4.337E+02	
6.4000E+00	2.759E+02	2.926E+02	3.102E+02	3.325E+02	3.567E+02	
6.4900E+00	2.657E+02	2.817E+02	2.987E+02	3.203E+02	3.436E+02	
6.9250E+00	2.229E+02	2.366E+02	2.508E+02	2.694E+02	2.890E+02	
7.0580E+00	2.117E+02	2.248E+02	2.383E+02	2.560E+02	2.747E+02	
7.4720E+00	1.815E+02	1.928E+02	2.044E+02	2.199E+02	2.360E+02	
7.6490E+00	1.704E+02	1.810E+02	1.919E+02	2.066E+02	2.218E+02	
8.0410E+00	1.488E+02	1.583E+02	1.677E+02	1.808E+02	1.941E+02	
8.2650E+00	1.380E+02	1.468E+02	1.555E+02	1.678E+02	1.802E+02	
8.6310E+00	1.224E+02	1.303E+02	1.382E+02	1.491E+02	1.602E+02	
8.9050E+00	1.123E+02	1.197E+02	1.269E+02	1.370E+02	1.471E+02	
9.5720E+00	9.204E+01	9.823E+01	1.042E+02	1.126E+02	1.210E+02	
1.7444E+01	1.696E+01	1.844E+01	1.978E+01	2.133E+01	2.305E+01	
1.9608E+01	8.122E+01	1.329E+01	1.430E+01	1.540E+01	1.665E+01	
2.0169E+01	7.564E+01	7.932E+01	1.322E+01	1.423E+01	1.539E+01	
2.1125E+01	6.708E+01	7.034E+01	7.299E+01	1.250E+01	1.352E+01	
2.2105E+01	5.963E+01	6.253E+01	6.499E+01	1.100E+01	1.191E+01	
2.2724E+01	5.551E+01	5.821E+01	6.056E+01	6.380E+01	1.103E+01	
2.3819E+01	4.914E+01	5.153E+01	5.369E+01	5.659E+01	5.838E+01	
2.4942E+01	4.362E+01	4.573E+01	4.773E+01	5.034E+01	5.203E+01	

Table III (continued).

KEV	46		47		48		49		50	
	PALLADIUM	SILVER	CADMIUM	INDIUM	TIN					
4.5090E+00	9.279E+02	9.869E+02	1.064E+03	1.151E+03	1.128E+03					
4.9320E+00	7.385E+02	7.852E+02	8.418E+02	9.056E+02	8.991E+02					
5.4120E+00	5.809E+02	6.174E+02	6.588E+02	7.058E+02	7.088E+02					
5.8950E+00	4.855E+02	4.946E+02	5.256E+02	5.611E+02	5.693E+02					
5.9470E+00	4.551E+02	4.835E+02	5.135E+02	5.480E+02	5.566E+02					
6.4000E+00	3.749E+02	3.984E+02	4.220E+02	4.492E+02	4.597E+02					
6.4900E+00	3.613E+02	3.839E+02	4.065E+02	4.325E+02	4.432E+02					
6.9250E+00	3.043E+02	3.235E+02	3.418E+02	3.627E+02	3.741E+02					
7.0580E+00	2.893E+02	3.076E+02	3.248E+02	3.445E+02	3.560E+02					
7.4720E+00	2.489E+02	2.647E+02	2.790E+02	2.952E+02	3.068E+02					
7.6490E+00	2.340E+02	2.489E+02	2.621E+02	2.771E+02	2.887E+02					
8.0410E+00	2.050E+02	2.181E+02	2.293E+02	2.421E+02	2.533E+02					
8.2650E+00	1.903E+02	2.025E+02	2.129E+02	2.246E+02	2.355E+02					
8.6310E+00	1.693E+02	1.803E+02	1.893E+02	1.995E+02	2.098E+02					
8.9050E+00	1.556E+02	1.658E+02	1.740E+02	1.833E+02	1.931E+02					
9.5720E+00	1.281E+02	1.366E+02	1.431E+02	1.506E+02	1.593E+02					
1.7444E+01	2.442E+01	2.638E+01	2.773E+01	2.913E+01	3.118E+01					
1.9608E+01	1.763E+01	1.910E+01	2.013E+01	2.118E+01	2.262E+01					
2.0169E+01	1.629E+01	1.767E+01	1.863E+01	1.961E+01	2.093E+01					
2.1125E+01	1.429E+01	1.552E+01	1.638E+01	1.726E+01	1.838E+01					
2.2105E+01	1.258E+01	1.367E+01	1.445E+01	1.525E+01	1.619E+01					
2.2724E+01	1.164E+01	1.266E+01	1.340E+01	1.414E+01	1.499E+01					
2.3819E+01	1.020E+01	1.111E+01	1.177E+01	1.243E+01	1.315E+01					
2.4942E+01	5.703E+01	9.780E+00	1.037E+01	1.097E+01	1.157E+01					

Table III (continued).

KEY	51				53		54		55	
	ANTIMONY		TELLURIUM		IODINE		XENON		CESIUM	
4.5090E+00	9.967E+02	7.533E+02	2.929E+02	2.997E+02	3.235E+02					
4.9320E+00	9.257E+02	8.429E+02	9.209E+02	6.827E+02	2.586E+02					
5.4120E+00	7.334E+02	7.689E+02	8.352E+02	7.554E+02	8.027E+02					
5.8950E+00	5.917E+02	6.166E+02	6.661E+02	7.010E+02	7.422E+02					
5.9470E+00	5.788E+02	6.027E+02	6.508E+02	6.852E+02	7.251E+02					
6.4000E+00	4.794E+02	4.973E+02	5.353E+02	5.649E+02	5.966E+02					
6.4900E+00	4.624E+02	4.794E+02	5.159E+02	5.445E+02	5.749E+02					
6.9250E+00	3.913E+02	4.044E+02	4.340E+02	4.590E+02	4.838E+02					
7.0580E+00	3.726E+02	3.847E+02	4.126E+02	4.366E+02	4.600E+02					
7.4720E+00	3.219E+02	3.314E+02	3.545E+02	3.758E+02	3.954E+02					
7.6490E+00	3.031E+02	3.117E+02	3.332E+02	3.534E+02	3.715E+02					
8.0410E+00	2.665E+02	2.734E+02	2.917E+02	3.098E+02	3.254E+02					
8.12650E+00	2.478E+02	2.541E+02	2.710E+02	2.879E+02	3.023E+02					
8.6310E+00	2.211E+02	2.264E+02	2.413E+02	2.564E+02	2.691E+02					
8.9050E+00	2.036E+02	2.084E+02	2.219E+02	2.359E+02	2.475E+02					
9.5720E+00	1.683E+02	1.720E+02	1.829E+02	1.946E+02	2.040E+02					
1.7444E+01	2.301E+01	3.352E+01	3.633E+01	3.831E+01	4.044E+01					
1.9608E+01	2.391E+01	2.467E+01	2.653E+01	2.786E+01	2.951E+01					
2.0169E+01	2.211E+01	2.284E+01	2.459E+01	2.580E+01	2.734E+01					
2.1125E+01	1.939E+01	2.009E+01	2.169E+01	2.269E+01	2.410E+01					
2.2105E+01	1.705E+01	1.772E+01	1.918E+01	2.001E+01	2.131E+01					
2.2724E+01	1.577E+01	1.641E+01	1.780E+01	1.855E+01	1.977E+01					
2.3819E+01	1.382E+01	1.442E+01	1.568E+01	1.629E+01	1.741E+01					
2.4942E+01	1.214E+01	1.270E+01	1.385E+01	1.436E+01	1.537E+01					

Table III (continued).

K.EV	56				57				58				59				60														
	BARIUM				LANTHANUM				CERIUM				PRASEODYMIUM				NEODYMIUM														
4.5090E+00	3.337E+02	3.547E+02	3.826E+02	4.138E+02	4.501E+02	4.635E+02	4.722E+02	5.094E+02	5.211E+02	5.670E+02	5.880E+02	6.155E+02	6.356E+02	6.132E+02	5.910E+02	5.321E+02	4.586E+02	4.315E+02	3.788E+02	3.524E+02	3.144E+02	2.895E+02	2.395E+02	4.855E+01	3.554E+01	3.295E+01	2.907E+01	2.572E+01	2.388E+01	2.104E+01	1.859E+01
4.9320E+00	2.660E+02	2.823E+02	3.044E+02	3.296E+02	3.739E+02	3.888E+02	4.179E+02	5.094E+02	5.211E+02	5.670E+02	5.880E+02	6.155E+02	6.356E+02	6.132E+02	5.910E+02	5.321E+02	4.586E+02	4.315E+02	3.788E+02	3.524E+02	3.144E+02	2.895E+02	2.395E+02	4.855E+01	3.554E+01	3.295E+01	2.907E+01	2.572E+01	2.388E+01	2.104E+01	1.859E+01
5.4120E+00	5.873E+02	6.765E+02	7.942E+02	9.426E+02	1.133E+03	1.333E+03	1.588E+03	1.907E+03	2.301E+03	2.680E+03	3.031E+03	3.438E+03	3.826E+03	4.204E+03	4.571E+03	4.926E+03	5.271E+03	5.606E+03	5.931E+03	6.246E+03	6.551E+03	6.846E+03	7.131E+03	7.406E+03	7.671E+03	7.926E+03	8.171E+03	8.406E+03	8.631E+03	8.846E+03	9.051E+03
5.8950E+00	6.597E+02	7.655E+02	8.942E+02	1.042E+03	1.213E+03	1.403E+03	1.613E+03	1.843E+03	2.093E+03	2.363E+03	2.653E+03	2.963E+03	3.293E+03	3.643E+03	3.913E+03	4.173E+03	4.423E+03	4.663E+03	4.893E+03	5.113E+03	5.323E+03	5.523E+03	5.713E+03	5.893E+03	6.063E+03	6.223E+03	6.373E+03	6.513E+03	6.643E+03	6.763E+03	6.873E+03
5.9470E+00	6.446E+02	7.615E+02	8.942E+02	1.042E+03	1.213E+03	1.403E+03	1.613E+03	1.843E+03	2.093E+03	2.363E+03	2.653E+03	2.963E+03	3.293E+03	3.643E+03	3.913E+03	4.173E+03	4.423E+03	4.663E+03	4.893E+03	5.113E+03	5.323E+03	5.523E+03	5.713E+03	5.893E+03	6.063E+03	6.223E+03	6.373E+03	6.513E+03	6.643E+03	6.763E+03	6.873E+03
6.4000E+00	6.149E+02	7.356E+02	8.723E+02	1.023E+03	1.193E+03	1.383E+03	1.593E+03	1.823E+03	2.073E+03	2.343E+03	2.633E+03	2.943E+03	3.273E+03	3.623E+03	3.893E+03	4.153E+03	4.403E+03	4.643E+03	4.873E+03	5.093E+03	5.303E+03	5.493E+03	5.673E+03	5.843E+03	6.003E+03	6.153E+03	6.293E+03	6.423E+03	6.543E+03	6.653E+03	6.753E+03
6.4900E+00	5.925E+02	7.132E+02	8.501E+02	1.001E+03	1.172E+03	1.363E+03	1.573E+03	1.803E+03	2.053E+03	2.323E+03	2.613E+03	2.923E+03	3.253E+03	3.603E+03	3.873E+03	4.133E+03	4.383E+03	4.623E+03	4.853E+03	5.073E+03	5.283E+03	5.473E+03	5.653E+03	5.823E+03	5.983E+03	6.133E+03	6.273E+03	6.403E+03	6.523E+03	6.633E+03	6.733E+03
6.9250E+00	4.990E+02	5.190E+02	5.591E+02	5.962E+02	6.303E+02	6.603E+02	6.873E+02	7.123E+02	7.353E+02	7.573E+02	7.783E+02	7.983E+02	8.173E+02	8.353E+02	8.523E+02	8.683E+02	8.833E+02	8.973E+02	9.103E+02	9.223E+02	9.333E+02	9.443E+02	9.543E+02	9.643E+02	9.733E+02	9.823E+02	9.903E+02	9.983E+02	1.006E+03	1.013E+03	1.020E+03
7.0580E+00	4.745E+02	4.942E+02	5.321E+02	5.670E+02	6.031E+02	6.303E+02	6.573E+02	6.833E+02	7.083E+02	7.323E+02	7.553E+02	7.783E+02	7.993E+02	8.193E+02	8.383E+02	8.563E+02	8.733E+02	8.893E+02	9.053E+02	9.203E+02	9.343E+02	9.473E+02	9.603E+02	9.723E+02	9.843E+02	9.953E+02	1.006E+03	1.013E+03	1.020E+03	1.027E+03	1.034E+03
7.14720E+00	4.081E+02	4.269E+02	4.586E+02	4.926E+02	5.271E+02	5.606E+02	5.931E+02	6.246E+02	6.551E+02	6.846E+02	7.131E+02	7.406E+02	7.671E+02	7.926E+02	8.171E+02	8.406E+02	8.631E+02	8.846E+02	9.051E+02	9.246E+02	9.431E+02	9.606E+02	9.771E+02	9.926E+02	1.007E+03	1.022E+03	1.037E+03	1.052E+03	1.067E+03	1.082E+03	1.097E+03
7.6490E+00	3.836E+02	4.019E+02	4.315E+02	4.588E+02	4.855E+01	5.113E+01	5.373E+01	5.633E+01	5.893E+01	6.153E+01	6.413E+01	6.673E+01	6.933E+01	7.193E+01	7.453E+01	7.713E+01	7.973E+01	8.233E+01	8.493E+01	8.753E+01	9.013E+01	9.273E+01	9.533E+01	9.793E+01	1.005E+02	1.031E+02	1.057E+02	1.083E+02	1.108E+02	1.135E+02	1.161E+02
8.0410E+00	3.361E+02	3.535E+02	3.788E+02	4.022E+02	4.255E+02	4.488E+02	4.721E+02	4.954E+02	5.187E+02	5.420E+02	5.653E+02	5.886E+02	6.119E+02	6.352E+02	6.585E+02	6.818E+02	7.051E+02	7.284E+02	7.517E+02	7.750E+02	7.983E+02	8.216E+02	8.449E+02	8.682E+02	8.915E+02	9.148E+02	9.381E+02	9.614E+02	9.847E+02	1.008E+03	1.031E+03
8.2650E+00	3.123E+02	3.290E+02	3.524E+02	3.739E+02	3.954E+02	4.169E+02	4.384E+02	4.599E+02	4.814E+02	5.029E+02	5.244E+02	5.459E+02	5.674E+02	5.889E+02	6.104E+02	6.319E+02	6.534E+02	6.749E+02	6.964E+02	7.179E+02	7.394E+02	7.609E+02	7.824E+02	8.039E+02	8.254E+02	8.469E+02	8.684E+02	8.899E+02	9.114E+02	9.329E+02	9.544E+02
8.6310E+00	2.783E+02	2.938E+02	3.144E+02	3.333E+02	3.523E+02	3.713E+02	3.903E+02	4.093E+02	4.283E+02	4.473E+02	4.663E+02	4.853E+02	5.043E+02	5.233E+02	5.423E+02	5.613E+02	5.803E+02	5.993E+02	6.183E+02	6.373E+02	6.563E+02	6.753E+02	6.943E+02	7.133E+02	7.323E+02	7.513E+02	7.703E+02	7.893E+02	8.083E+02	8.273E+02	8.463E+02
8.9050E+00	2.560E+02	2.708E+02	2.895E+02	3.068E+02	3.234E+02	3.400E+02	3.566E+02	3.732E+02	3.898E+02	4.064E+02	4.230E+02	4.396E+02	4.562E+02	4.728E+02	4.894E+02	5.060E+02	5.226E+02	5.392E+02	5.558E+02	5.724E+02	5.890E+02	6.056E+02	6.222E+02	6.388E+02	6.554E+02	6.720E+02	6.886E+02	7.052E+02	7.218E+02	7.384E+02	7.550E+02
9.5720E+00	2.113E+02	2.243E+02	2.395E+02	2.534E+02	2.673E+02	2.812E+02	2.951E+02	3.090E+02	3.229E+02	3.368E+02	3.507E+02	3.646E+02	3.785E+02	3.924E+02	4.063E+02	4.202E+02	4.341E+02	4.480E+02	4.619E+02	4.758E+02	4.897E+02	5.036E+02	5.175E+02	5.314E+02	5.453E+02	5.592E+02	5.731E+02	5.870E+02	6.009E+02	6.148E+02	6.287E+02
1.7444E+01	4.237E+01	4.534E+01	4.855E+01	5.078E+01	5.301E+01	5.524E+01	5.747E+01	5.970E+01	6.193E+01	6.416E+01	6.639E+01	6.862E+01	7.085E+01	7.308E+01	7.531E+01	7.754E+01	7.977E+01	8.200E+01	8.423E+01	8.646E+01	8.869E+01	9.092E+01	9.315E+01	9.538E+01	9.761E+01	9.984E+01	1.020E+02	1.042E+02	1.064E+02	1.086E+02	1.108E+02
1.9608E+01	3.100E+01	3.310E+01	3.554E+01	3.709E+01	3.864E+01	4.019E+01	4.174E+01	4.329E+01	4.484E+01	4.639E+01	4.794E+01	4.949E+01	5.104E+01	5.259E+01	5.414E+01	5.569E+01	5.724E+01	5.879E+01	6.034E+01	6.189E+01	6.344E+01	6.499E+01	6.654E+01	6.809E+01	6.964E+01	7.119E+01	7.274E+01	7.429E+01	7.584E+01	7.739E+01	7.894E+01
2.0169E+01	2.874E+01	3.067E+01	3.295E+01	3.438E+01	3.581E+01	3.724E+01	3.867E+01	4.010E+01	4.153E+01	4.296E+01	4.439E+01	4.582E+01	4.725E+01	4.868E+01	5.011E+01	5.154E+01	5.297E+01	5.440E+01	5.583E+01	5.726E+01	5.869E+01	6.012E+01	6.155E+01	6.298E+01	6.441E+01	6.584E+01	6.727E+01	6.870E+01	7.013E+01	7.156E+01	7.299E+01
2.1125E+01	2.537E+01	2.701E+01	2.907E+01	3.031E+01	3.155E+01	3.279E+01	3.403E+01	3.527E+01	3.651E+01	3.775E+01	3.899E+01	4.023E+01	4.147E+01	4.271E+01	4.395E+01	4.519E+01	4.643E+01	4.767E+01	4.891E+01	5.015E+01	5.139E+01	5.263E+01	5.387E+01	5.511E+01	5.635E+01	5.759E+01	5.883E+01	6.007E+01	6.131E+01	6.255E+01	6.379E+01
2.2105E+01	2.245E+01	2.385E+01	2.572E+01	2.680E+01	2.788E+01	2.896E+01	3.004E+01	3.112E+01	3.220E+01	3.328E+01	3.436E+01	3.544E+01	3.652E+01	3.760E+01	3.868E+01	3.976E+01	4.084E+01	4.192E+01	4.300E+01	4.408E+01	4.516E+01	4.624E+01	4.732E+01	4.840E+01	4.948E+01	5.056E+01	5.164E+01	5.272E+01	5.380E+01	5.488E+01	5.596E+01
2.2724E+01	2.085E+01	2.212E+01	2.388E+01	2.487E+01	2.572E+01	2.657E+01	2.742E+01	2.827E+01	2.912E+01	3.000E+01	3.088E+01	3.176E+01	3.264E+01	3.352E+01	3.440E+01	3.528E+01	3.616E+01	3.704E+01	3.792E+01	3.880E+01	3.968E+01	4.056E+01	4.144E+01	4.232E+01	4.320E+01	4.408E+01	4.496E+01	4.584E+01	4.672E+01	4.760E+01	4.848E+01
2.3819E+01	1.838E+01	1.945E+01	2.104E+01	2.190E+01	2.272E+01	2.354E+01	2.436E+01	2.518E+01	2.600E+01	2.682E+01	2.764E+01	2.846E+01	2.928E+01	3.010E+01	3.092E+01	3.174E+01	3.256E+01	3.338E+01	3.420E+01	3.502E+01	3.584E+01	3.666E+01	3.748E+01	3.830E+01	3.912E+01	4.000E+01	4.088E+01	4.176E+01	4.264E+01	4.352E+01	4.440E+01
2.4942E+01	1.625E+01	1.715E+01	1.859E+01	1.934E+01	2.009E+01	2.084E+01	2.159E+01	2.234E+01	2.309E+01	2.384E+01	2.459E+01	2.534E+01	2.609E+01	2.684E+01	2.759E+01	2.834E+01	2.909E+01	2.984E+01	3.059E+01	3.134E+01	3.209E+01	3.284E+01	3.359E+01	3.434E+01	3.509E+01	3.584E+01	3.659E+01	3.734E+01	3.809E+01	3.884E+01	3.959E+01

Table III (continued).

KEV	61			62			63			64			65		
	PROMETHIUM	SAMARIUM	EUROPIUM	GADOLINIUM	TERBIUM		PROMETHIUM	SAMARIUM	EUROPIUM	GADOLINIUM	TERBIUM		PROMETHIUM	SAMARIUM	EUROPIUM
4.5090E+00	4.546E+02	4.726E+02	5.029E+02	5.104E+02	5.457E+02		4.546E+02	4.726E+02	5.029E+02	5.104E+02	5.457E+02		4.546E+02	4.726E+02	5.029E+02
4.9320E+00	3.612E+02	3.749E+02	3.981E+02	4.050E+02	4.317E+02		3.612E+02	3.749E+02	3.981E+02	4.050E+02	4.317E+02		3.612E+02	3.749E+02	3.981E+02
5.4120E+00	2.847E+02	2.950E+02	3.127E+02	3.189E+02	3.389E+02		2.847E+02	2.950E+02	3.127E+02	3.189E+02	3.389E+02		2.847E+02	2.950E+02	3.127E+02
5.8950E+00	2.289E+02	2.368E+02	2.505E+02	2.560E+02	2.714E+02		2.289E+02	2.368E+02	2.505E+02	2.560E+02	2.714E+02		2.289E+02	2.368E+02	2.505E+02
5.9470E+00	2.238E+02	2.315E+02	2.449E+02	2.503E+02	2.652E+02		2.238E+02	2.315E+02	2.449E+02	2.503E+02	2.652E+02		2.238E+02	2.315E+02	2.449E+02
6.4000E+00	1.856E+02	1.917E+02	2.025E+02	2.073E+02	2.192E+02		1.856E+02	1.917E+02	2.025E+02	2.073E+02	2.192E+02		1.856E+02	1.917E+02	2.025E+02
6.4900E+00	4.757E+02	1.850E+02	1.953E+02	2.000E+02	2.114E+02		4.757E+02	1.850E+02	1.953E+02	2.000E+02	2.114E+02		4.757E+02	1.850E+02	1.953E+02
6.9250E+00	4.014E+02	4.118E+02	1.652E+02	1.695E+02	1.787E+02		4.014E+02	4.118E+02	1.652E+02	1.695E+02	1.787E+02		4.014E+02	4.118E+02	1.652E+02
7.0580E+00	5.364E+02	3.920E+02	4.199E+02	1.614E+02	1.702E+02		5.364E+02	3.920E+02	4.199E+02	1.614E+02	1.702E+02		5.364E+02	3.920E+02	4.199E+02
7.3470E+00	5.352E+02	4.746E+02	3.613E+02	3.688E+02	1.469E+02		5.352E+02	4.746E+02	3.613E+02	3.688E+02	1.469E+02		5.352E+02	4.746E+02	3.613E+02
7.6490E+00	5.032E+02	4.463E+02	4.769E+02	3.467E+02	3.671E+02		5.032E+02	4.463E+02	4.769E+02	3.467E+02	3.671E+02		5.032E+02	4.463E+02	4.769E+02
8.0410E+00	4.411E+02	4.535E+02	4.179E+02	4.267E+02	3.219E+02		4.411E+02	4.535E+02	4.179E+02	4.267E+02	3.219E+02		4.411E+02	4.535E+02	4.179E+02
8.2650E+00	4.100E+02	4.218E+02	4.499E+02	3.969E+02	4.204E+02		4.100E+02	4.218E+02	4.499E+02	3.969E+02	4.204E+02		4.100E+02	4.218E+02	4.499E+02
8.6310E+00	3.655E+02	3.763E+02	4.013E+02	4.098E+02	3.751E+02		3.655E+02	3.763E+02	4.013E+02	4.098E+02	3.751E+02		3.655E+02	3.763E+02	4.013E+02
8.9050E+00	3.364E+02	3.466E+02	3.690E+02	3.772E+02	3.999E+02		3.364E+02	3.466E+02	3.690E+02	3.772E+02	3.999E+02		3.364E+02	3.466E+02	3.690E+02
9.5720E+00	2.778E+02	2.866E+02	3.047E+02	3.115E+02	3.303E+02		2.778E+02	2.866E+02	3.047E+02	3.115E+02	3.303E+02		2.778E+02	2.866E+02	3.047E+02
1.7444E+01	5.552E+01	5.796E+01	6.118E+01	6.279E+01	6.677E+01		5.552E+01	5.796E+01	6.118E+01	6.279E+01	6.677E+01		5.552E+01	5.796E+01	6.118E+01
1.9608E+01	4.052E+01	4.240E+01	4.474E+01	4.595E+01	4.888E+01		4.052E+01	4.240E+01	4.474E+01	4.595E+01	4.888E+01		4.052E+01	4.240E+01	4.474E+01
2.0169E+01	3.755E+01	3.932E+01	4.143E+01	4.261E+01	4.533E+01		3.755E+01	3.932E+01	4.143E+01	4.261E+01	4.533E+01		3.755E+01	3.932E+01	4.143E+01
2.1125E+01	3.309E+01	3.469E+01	3.661E+01	3.762E+01	4.001E+01		3.309E+01	3.469E+01	3.661E+01	3.762E+01	4.001E+01		3.309E+01	3.469E+01	3.661E+01
2.2105E+01	2.925E+01	3.069E+01	3.240E+01	3.330E+01	3.542E+01		2.925E+01	3.069E+01	3.240E+01	3.330E+01	3.542E+01		2.925E+01	3.069E+01	3.240E+01
2.2724E+01	2.713E+01	2.849E+01	3.008E+01	3.092E+01	3.289E+01		2.713E+01	2.849E+01	3.008E+01	3.092E+01	3.289E+01		2.713E+01	2.849E+01	3.008E+01
2.3819E+01	2.388E+01	2.510E+01	2.651E+01	2.726E+01	2.899E+01		2.388E+01	2.510E+01	2.651E+01	2.726E+01	2.899E+01		2.388E+01	2.510E+01	2.651E+01
2.4942E+01	2.108E+01	2.218E+01	2.343E+01	2.410E+01	2.563E+01		2.108E+01	2.218E+01	2.343E+01	2.410E+01	2.563E+01		2.108E+01	2.218E+01	2.343E+01

Table III (continued).

KEY	66			67		68		69		70	
	DYS	PRO	SIO	HOL	MIU	ERB	BIU	THU	LIU	YTB	ERB
4.5090E+00	5.677E+02			5.892E+02		6.153E+02		6.439E+02		6.641E+02	
4.9320E+00	4.486E+02			4.645E+02		4.853E+02		5.076E+02		5.237E+02	
5.4120E+00	3.517E+02			3.633E+02		3.797E+02		3.970E+02		4.096E+02	
5.8950E+00	2.813E+02			2.900E+02		3.030E+02		3.169E+02		3.269E+02	
5.9470E+00	2.750E+02			2.834E+02		2.961E+02		3.096E+02		3.194E+02	
6.4000E+00	2.270E+02			2.335E+02		2.441E+02		2.551E+02		2.632E+02	
6.4900E+00	2.189E+02			2.251E+02		2.353E+02		2.459E+02		2.537E+02	
6.9250E+00	1.849E+02			1.898E+02		1.984E+02		2.074E+02		2.140E+02	
7.0580E+00	1.760E+02			1.806E+02		1.889E+02		1.973E+02		2.035E+02	
7.4720E+00	1.518E+02			1.555E+02		1.625E+02		1.699E+02		1.753E+02	
7.6490E+00	1.429E+02			1.463E+02		1.530E+02		1.598E+02		1.649E+02	
8.0410E+00	3.366E+02			1.284E+02		1.343E+02		1.402E+02		1.447E+02	
8.2650E+00	3.129E+02			3.332E+02		1.250E+02		1.305E+02		1.347E+02	
8.6310E+00	3.915E+02			2.963E+02		3.177E+02		1.166E+02		1.203E+02	
8.9050E+00	3.602E+02			2.724E+02		2.917E+02		2.885E+02		1.109E+02	
9.5720E+00	3.440E+02			3.640E+02		3.359E+02		2.386E+02		2.315E+02	
1.7444E+01	6.889E+01			7.214E+01		7.561E+01		7.898E+01		8.023E+01	
1.9608E+01	5.038E+01			5.276E+01		5.507E+01		5.794E+01		5.922E+01	
2.0169E+01	4.671E+01			4.893E+01		5.103E+01		5.377E+01		5.503E+01	
2.1125E+01	4.124E+01			4.323E+01		4.502E+01		4.752E+01		4.870E+01	
2.2105E+01	3.652E+01			3.831E+01		3.983E+01		4.212E+01		4.321E+01	
2.2724E+01	3.391E+01			3.559E+01		3.697E+01		3.914E+01		4.018E+01	
2.3819E+01	2.990E+01			3.141E+01		3.257E+01		3.454E+01		3.550E+01	
2.4942E+01	2.644E+01			2.779E+01		2.877E+01		3.058E+01		3.146E+01	

Table III (continued).

KEV	71				72				73				74				75			
	LUTETIUM				HAFNIUM				TANTALUM				TUNGSTEN				RHENIUM			
4.5090E+00	6.958E+02	7.202E+02	7.356E+02	7.533E+02	7.963E+02															
4.9320E+00	5.489E+02	5.684E+02	5.808E+02	5.975E+02	6.307E+02															
5.4120E+00	4.295E+02	4.450E+02	4.547E+02	4.704E+02	4.955E+02															
5.8950E+00	3.429E+02	3.553E+02	3.632E+02	3.776E+02	3.970E+02															
5.9470E+00	3.351E+02	3.472E+02	3.550E+02	3.691E+02	3.880E+02															
6.4000E+00	2.762E+02	2.864E+02	2.923E+02	3.057E+02	3.209E+02															
6.4900E+00	2.663E+02	2.761E+02	2.823E+02	2.949E+02	3.095E+02															
6.9250E+00	2.246E+02	2.329E+02	2.383E+02	2.497E+02	2.618E+02															
7.0580E+00	2.137E+02	2.216E+02	2.267E+02	2.379E+02	2.493E+02															
7.4720E+00	1.841E+02	1.909E+02	1.954E+02	2.056E+02	2.153E+02															
7.6490E+00	1.732E+02	1.796E+02	1.839E+02	1.937E+02	2.027E+02															
8.0410E+00	1.520E+02	1.577E+02	1.615E+02	1.705E+02	1.783E+02															
8.2650E+00	1.415E+02	1.468E+02	1.504E+02	1.590E+02	1.662E+02															
8.6310E+00	1.264E+02	1.312E+02	1.344E+02	1.424E+02	1.487E+02															
8.9050E+00	1.165E+02	1.210E+02	1.239E+02	1.315E+02	1.373E+02															
9.5720E+00	2.466E+02	2.360E+02	1.028E+02	1.095E+02	1.141E+02															
1.7444E+01	8.418E+01	8.633E+01	8.951E+01	9.576E+01	9.874E+01															
1.9608E+01	6.204E+01	6.415E+01	6.607E+01	7.057E+01	7.247E+01															
2.0169E+01	5.763E+01	5.968E+01	6.139E+01	6.554E+01	6.727E+01															
2.1125E+01	5.101E+01	5.285E+01	5.435E+01	5.796E+01	5.950E+01															
2.2105E+01	4.527E+01	4.693E+01	4.825E+01	5.140E+01	5.278E+01															
2.2724E+01	4.211E+01	4.366E+01	4.488E+01	4.777E+01	4.906E+01															
2.3819E+01	3.721E+01	3.861E+01	3.968E+01	4.218E+01	4.333E+01															
2.4942E+01	3.298E+01	3.424E+01	3.517E+01	3.735E+01	3.838E+01															

Table III (continued).

KEV	76				77				78				79				80			
	OSMIUM				IRIDIUM				PLATINUM				GOLD				MERCURY			
4.5090E+00	8.244E+02	8.710E+02	9.343E+02	9.555E+02	9.583E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02	9.600E+02
4.9320E+00	6.525E+02	6.883E+02	7.338E+02	7.200E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02	7.600E+02
5.4120E+00	5.124E+02	5.396E+02	5.715E+02	5.680E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02	5.979E+02
5.8950E+00	4.104E+02	4.314E+02	4.545E+02	4.568E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02	4.796E+02
5.9470E+00	4.011E+02	4.216E+02	4.439E+02	4.467E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02	4.689E+02
6.4000E+00	3.315E+02	3.480E+02	3.645E+02	3.705E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02	3.882E+02
6.4900E+00	3.197E+02	3.356E+02	3.512E+02	3.576E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02	3.745E+02
6.9250E+00	2.703E+02	2.834E+02	2.952E+02	3.033E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02	3.170E+02
7.0580E+00	2.573E+02	2.697E+02	2.806E+02	2.890E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02	3.019E+02
7.4720E+00	2.220E+02	2.325E+02	2.410E+02	2.501E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02	2.608E+02
7.6490E+00	2.090E+02	2.188E+02	2.263E+02	2.357E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02	2.457E+02
8.0410E+00	1.838E+02	1.922E+02	1.982E+02	2.078E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02	2.162E+02
8.2650E+00	1.712E+02	1.790E+02	1.842E+02	1.938E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02	2.015E+02
8.6310E+00	1.531E+02	1.600E+02	1.642E+02	1.737E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02	1.804E+02
8.9050E+00	1.413E+02	1.476E+02	1.512E+02	1.606E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02	1.666E+02
9.5720E+00	1.175E+02	1.225E+02	1.249E+02	1.339E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02	1.386E+02
1.7444E+01	1.002E+02	1.034E+02	1.086E+02	1.113E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02	1.147E+02
1.9608E+01	7.413E+01	7.720E+01	8.023E+01	8.233E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01	8.530E+01
2.0169E+01	6.891E+01	7.190E+01	7.455E+01	7.653E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01	7.938E+01
2.1125E+01	6.106E+01	6.380E+01	6.600E+01	6.779E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01	7.042E+01
2.2105E+01	5.424E+01	5.675E+01	5.858E+01	6.021E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01	6.263E+01
2.2724E+01	5.047E+01	5.285E+01	5.448E+01	5.602E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01	5.832E+01
2.3819E+01	4.464E+01	4.682E+01	4.815E+01	4.954E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01	5.165E+01
2.4942E+01	3.960E+01	4.159E+01	4.268E+01	4.393E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01	4.587E+01

Table III (continued).

KEV	81		82		83		84		85	
	Tt-ALL IUM		LEAD		BISMUTH					
4.5090E+00	9.906E+02	1.035E+03	1.065E+03	0.	0.	0.	0.	0.	0.	0.
4.9320E+00	7.849E+02	8.200E+02	8.465E+02	0.	0.	0.	0.	0.	0.	0.
5.4120E+00	6.169E+02	6.445E+02	6.672E+02	0.	0.	0.	0.	0.	0.	0.
5.8950E+00	4.944E+02	5.165E+02	5.361E+02	0.	0.	0.	0.	0.	0.	0.
5.9470E+00	4.833E+02	5.049E+02	5.242E+02	0.	0.	0.	0.	0.	0.	0.
6.1400E+00	3.998E+02	4.177E+02	4.345E+02	0.	0.	0.	0.	0.	0.	0.
6.4900E+00	3.857E+02	4.029E+02	4.192E+02	0.	0.	0.	0.	0.	0.	0.
6.9250E+00	3.263E+02	3.408E+02	3.553E+02	0.	0.	0.	0.	0.	0.	0.
7.0580E+00	3.107E+02	3.245E+02	3.384E+02	0.	0.	0.	0.	0.	0.	0.
7.4720E+00	2.683E+02	2.802E+02	2.927E+02	0.	0.	0.	0.	0.	0.	0.
7.6490E+00	2.527E+02	2.638E+02	2.753E+02	0.	0.	0.	0.	0.	0.	0.
8.0410E+00	2.222E+02	2.321E+02	2.429E+02	0.	0.	0.	0.	0.	0.	0.
8.12650E+00	2.071E+02	2.163E+02	2.265E+02	0.	0.	0.	0.	0.	0.	0.
8.6310E+00	1.853E+02	1.935E+02	2.029E+02	0.	0.	0.	0.	0.	0.	0.
8.9050E+00	1.711E+02	1.786E+02	1.875E+02	0.	0.	0.	0.	0.	0.	0.
9.5720E+00	1.423E+02	1.485E+02	1.562E+02	0.	0.	0.	0.	0.	0.	0.
1.17444E+01	1.194E+02	1.228E+02	1.259E+02	0.	0.	0.	0.	0.	0.	0.
1.9608E+01	8.825E+01	9.055E+01	9.350E+01	0.	0.	0.	0.	0.	0.	0.
2.0169E+01	8.202E+01	8.413E+01	8.701E+01	0.	0.	0.	0.	0.	0.	0.
2.1125E+01	7.268E+01	7.450E+01	7.723E+01	0.	0.	0.	0.	0.	0.	0.
2.2105E+01	6.456E+01	6.614E+01	6.873E+01	0.	0.	0.	0.	0.	0.	0.
2.2724E+01	6.008E+01	6.152E+01	6.402E+01	0.	0.	0.	0.	0.	0.	0.
2.3819E+01	5.315E+01	5.439E+01	5.674E+01	0.	0.	0.	0.	0.	0.	0.
2.4942E+01	4.715E+01	4.822E+01	5.041E+01	0.	0.	0.	0.	0.	0.	0.

Table III (continued).

KEV	86 RADON	87	88	89	90 THORIUM
4.5090E+00	1.174E+03	0.	0.	0.	1.098E+03
4.9320E+00	9.302E+02	0.	0.	0.	9.926E+02
5.4120E+00	7.314E+02	0.	0.	0.	8.441E+02
5.8950E+00	5.864E+02	0.	0.	0.	6.780E+02
5.9470E+00	5.732E+02	0.	0.	0.	6.630E+02
6.4000E+00	4.743E+02	0.	0.	0.	5.493E+02
6.4900E+00	4.575E+02	0.	0.	0.	5.301E+02
6.9250E+00	3.871E+02	0.	0.	0.	4.490E+02
7.0580E+00	3.686E+02	0.	0.	0.	4.277E+02
7.4720E+00	3.183E+02	0.	0.	0.	3.698E+02
7.6490E+00	2.997E+02	0.	0.	0.	3.484E+02
8.0410E+00	2.637E+02	0.	0.	0.	3.068E+02
8.2650E+00	2.457E+02	0.	0.	0.	2.860E+02
8.6310E+00	2.199E+02	0.	0.	0.	2.562E+02
8.9050E+00	2.030E+02	0.	0.	0.	2.366E+02
9.5720E+00	1.688E+02	0.	0.	0.	1.970E+02
1.7444E+01	1.172E+02	0.	0.	0.	9.946E+01
1.9608E+01	1.007E+02	0.	0.	0.	7.334E+01
2.0169E+01	9.378E+01	0.	0.	0.	9.500E+01
2.1125E+01	8.328E+01	0.	0.	0.	9.720E+01
2.2105E+01	7.414E+01	0.	0.	0.	8.629E+01
2.2724E+01	6.908E+01	0.	0.	0.	8.026E+01
2.3819E+01	6.124E+01	0.	0.	0.	7.095E+01
2.4942E+01	5.444E+01	0.	0.	0.	6.288E+01

Table III (continued).

KEV	91			92		93		94		95	
				URANIUM				PLUTONIUM			
4.5090E+00	0.			1.084E+03		0.		9.597E+02		0.	
4.9320E+00	0.			8.623E+02		0.		1.023E+03		0.	
5.4120E+00	0.			7.740E+02		0.		8.032E+02		0.	
5.8950E+00	0.			6.720E+C2		0.		7.314E+02		0.	
5.9470E+00	0.			6.571E+02		0.		7.716E+02		0.	
6.4000E+00	0.			5.452E+02		0.		6.376E+02		0.	
6.4900E+00	0.			5.262E+02		0.		6.149E+02		0.	
6.9250E+00	0.			4.463E+02		0.		5.196E+02		0.	
7.0580E+00	0.			4.253E+02		0.		4.946E+02		0.	
7.4720E+00	0.			3.681E+02		0.		4.267E+02		0.	
7.6490E+00	0.			3.469E+02		0.		4.016E+02		0.	
8.0410E+00	0.			3.057E+C2		0.		3.529E+02		0.	
8.2650E+00	0.			2.852E+02		0.		3.287E+02		0.	
8.6310E+00	0.			2.556E+02		0.		2.939E+02		0.	
8.9050E+00	0.			2.362E+02		0.		2.712E+02		0.	
9.5720E+00	0.			1.969E+C2		0.		2.252E+02		0.	
1.7444E+01	0.			9.667E+01		0.		4.884E+01		0.	
1.9608E+01	0.			7.263E+01		0.		7.899E+01		0.	
2.0169E+01	0.			6.779E+01		0.		7.369E+01		0.	
2.1125E+01	0.			8.424E+01		0.		6.572E+01		0.	
2.2105E+01	0.			8.692E+01		0.		5.876E+01		0.	
2.2724E+01	0.			8.111E+01		0.		7.636E+01		0.	
2.3819E+01	0.			7.209E+01		0.		7.834E+01		0.	
2.4942E+01	0.			6.424E+01		0.		6.975E+01		0.	

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