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CHAIN AND INDEPENDENT FISSION PRODUCT YIELDS ADJUSTED TO CONFORM WITH PHYSICAL CONSERVATION LAWS

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ABSTRACT

Previously reported chain yields and independent yields for the thermal neutron induced fission of ^{233}U, ^{235}U, ^{239}Pu and ^{241}Pu, the fast neutron induced fission of ^{232}Th, ^{233}U, ^{235}U, ^{238}U, ^{239}Pu, ^{240}Pu and ^{241}Pu, and the 14 MeV neutron induced fission of ^{233}U, ^{235}U and ^{238}U have been adjusted to conform with physical conservation laws and the results listed.

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1. Introduction

This report describes an extension of a line of work which began with the establishment of a computer based fission product library (Ref. 1), and a means of extracting information from the library (Ref. 2). Thermal neutron induced fission product yields were extracted from the library and assessed (Ref. 3,4) followed by a similar assessment for fast neutron induced fission product yields (Ref. 5); lastly the known independent yields were extracted from the library and assessed (Ref. 6).

All these results were obtained by treating experimental results and in the case of independent yields the known values were used as the basis for the calculation of those which were not known. The end products in all cases were the best that could be deduced from experiment. It is known that the experimentally determined yields must also obey physical conservation laws (Ref. 7,8,9,10), and this report describes a method of adjusting the yields to conform with them.

The adjusted fission product yields will be found in Tables 1-14, the fractional independent yields in tables 15-17.

2. Discussion

From the definition of chain yields the total number of fission fragments is equal to twice the number of fissions

$$\sum_A Y(A) = 2 \qquad (1)$$

wher Y(A) is the adjusted chain yield of fission products of mass A expressed in fractional form. The fission process does not involve the anihilation of nucleons so that there are as many nucleons after fission as there were before so that

$$\sum_A Y(A).A = A_F \quad 1 - \bar{\nu}_T \qquad (2)$$

where A is the mass number of the decay chain, A_F is the mass number of the fissile isotope, thr 1 stands for the neutron causing fission and $\bar{\nu}_T$ is the total number of neutrons emitted during and after fission. It should be noted that (2) is a number balance and not a mass balance.

Since no nucleons are destroyed protons are conserved so that

$$\sum_A Y(A).\bar{Z}(A) = Z_F \qquad (3)$$

where

$$\bar{Z}(A) = \sum_{Z} Z.FIY(A,Z) \tag{4}$$

FIY(A,Z) is the fractional independent fission yield of nuclide mass A, atomic number Z; Z_F is the atomic number of the fissile nuclide and $\bar{Z}(A)$ is the mean atomic number of the independent yields of mass A. Since the atomic numbers of complementary fission fragments must add up to Z_F (i.e. no protons are lost),

$$\sum_{A} FIY(A,Z).Y(A) = \sum_{A'} FIY(A',Z_F-Z).Y(A') \tag{5}$$

i.e. the total yield of the isotopes of atomic number Z summed over all masses A, is equal to the total yield of isotopes of atomic number (Z_F-Z) summed over all masses A'.

As equation (3) and (5) are both based on proton conservation it would be expected that one might be derived from the other. This is indeed so and Appendix 1 sets out the derivation of (3) from (5).

The problem now is so to adjust the observed chain yields y(A), that taken with the adjusted independent yields they obey (1)-(5). It would seem a priori to be desirable that the adjustment of a given chain yield should be dependent on its magnitude and the accuracy with which it is known.

The adjustment chosen was

$$Y(A) = y(A)\ (\alpha + \beta y(A).\sigma(A)) \tag{6}$$

(where

Y(A) is the adjusted chain yield for mass A,

y(A) is the observed chain yield for mass A,

σ(A) is the standard deviation of y(A) expressed as a fraction of y(A) and α, β are constants);

which appears to satisfy the a priori requirements.

There is apparently no objective way of choosing the method of adjustment and equation 6 is a subjective choice. Meek and Rider (Ref.14), use the correction

$$Y(A) = y(A) + [200.0 - \sum_{A} y(A)]. \text{Var } y(A)/\sum_{A} \text{var } y(A)$$

for the chain yield of mass number A. (Note that here $\text{Var}(\sum_{A} y(A)) = \sum_{A} \text{Var } y(A)$ assuming that the observed chain yields are not correlated, i.e. the variance of the sum of the observed yields is identically equal to the sum of the variances of the individual chain yields.)

Possibly the only objection which can be raised to this choice of adjustment is that for a given reaction the adjustments are allpositive or all negative depending on the sign of $[200.0 - \Sigma\, y(A)]$. It would be expected that of the adjustments to individual chain yields some would be positive and some negative for an additive adjustment, or some greater than unity and some less than unity for a multiplication adjustment. Equation 6 is an adjustment which conforms to these expectations.

Then from (1) above

$$\alpha\Sigma y(A) + \beta\Sigma\sigma(A).y^2(A) = 2 \tag{7}$$

and from (2)

$$\alpha\Sigma y(A).A + \beta\Sigma\sigma(A).y^2(A).A = \bar{A} \tag{8}$$

where

$$\bar{A} = A_F + 1 - \bar{\nu}_T$$

Then if $p = \Sigma y(A)$, $q = \Sigma\sigma(A).y^2(A)$, $r = \Sigma y(A).A$, $s = \Sigma\sigma(A).y^2(A).A$

$$\alpha = (2s - \bar{A}q)/(ps - rq) \tag{9}$$

$$\beta = (2r - \bar{A}p)/(rq - ps) \tag{10}$$

The test is then to apply (3) in the form

$$\theta.\Sigma\, y(A).\bar{Z}(A) = Z_F \tag{11}$$

when θ should be found = 1.

Also (5) should apply and the sums of the independent yields of complementary atomic numbers should be equal.

It would, of course, be possible to fit the experimentally found chain and independent yields to the constraints represented by (1), (2), (3) and (5), but it was found in practice that if the chain yields were adjusted to comply with (1) and (2) then θ in (11) was found to be a number very close to 1; the actual values together with the total yield of complementary elements are given later (see Tables 18, 19).

Further tests are possible and they are described in the Appendix. The results of these tests are equally satisfactory, but the size of the errors involved indicates that in further work it may be wiser to fit by least squares all the constraints simultaneously.

3. Method

(a) Chain yields

The starting points for the adjustments, which were made by a computer program, were the chain yields of Refs. 3 and 5. Gaps in the mass versus yield tables in the

mass range 72–161 were filled in the case of thermal yields by semi-logarithmic interpolation. For fast fission chain yields of ^{232}Th, ^{235}U and ^{239}Pu semi-logarithmic interpolation was used, but for ^{233}U and ^{238}U the extensive gaps in the data made this impossible and the predictions of Ref. 10 were used. The fast fission chain yields for ^{240}Pu and ^{241}Pu have not been determined and the predictions of Ref. 10 were used assigning an uncertainty of ± 15% (1σ) to all values. The method used in Ref. 10 to predict chain yields is also described in Ref. 15.

There are experimental chain yields available for 14 MeV fission of ^{232}Th, ^{233}U, ^{235}U and ^{238}U and the gaps were filled by semi-logarithmic interpolation. In the case of ^{232}Th the adjustment process failed, giving some negative yields; this was also the case when Flynn and Glendenin's (Ref. 12), interpolated values were used. Presumably the available experimental results do not define the mass versus yield curve well enough, certainly the trough and the sides of the heavy fragment peak are not well covered by the experimental points.

With these chain yields and the $\bar{\nu}_T$ values recommended by M. F. James (Ref. 11), see Table 20, the values of α and β were computed using (7) and (8), and the adjustments derived therefrom were applied to the chain yields. The results are displayed in Tables 1–14, in which the adjusted yields (as percentages), are given for each mass number, along with the uncertainties (± 1σ as percentages i.e. as coefficients of variation), carried over from Ref. 3 and 5, and the adjustment factors in fractional form

(b) Fractional independent yields

The calculated fractional independent yields of Table 13, Ref. 6, were first corrected for the odd-even Z effect. For a given mass number and fissile nuclide the calculated independent yields for each Z value were multiplied by the appropriate odd-even Z factors given in Ref. 6 for thermal and fast fission, and the sum over all the Z values for given mass number and fissile element, was found. Each independent yield in the sum was then divided by the sum so that the resulting values added to 1,000. The factor θ in (11) was then computed using the adjusted chain yield. For 14 MeV fission the calculated independent yields of Table 13, Ref. 6, were first recalculated using the Z_p values given in Ref. 6 for ^{232}Th and ^{238}U. There are no odd-even Z effects to allow for and the proton balance factor θ in (11) was calculated directly. Incidentally the fact that 14 MeV fission is energetic enough to smooth out the odd-even Z effects is independently confirmed by Nethaway (Ref. 13).

A summary of these operations is given in Table 18, and the independent yields in fractional form are set out in Tables 15–17.

(c) Yields of complementary elements

It is clear that as no protons are destroyed in the fission process the two fission fragments of each fission must possess atomic numbers that add up to Z_F, thus the number of fission fragments of atomic number Z must be equal to the number of fission fragments of atomic number (Z_F-Z). Of course this statement refers to fragments before any decay and it ignores the production of very light particles which occur in a very small proportion of fissions. A test of the calculated independent yields and the adjusted chain yields is thus to demonstrate that they lead to the equality of the total yields of the complementary elements on application of (5). This is done in Table 19 which sets out the total elemental yields together with the standard deviation deriving from the errors in the adjusted yields. The uncertainties in the elemental total yields must be greater than these since the calculated independent yields are subject to considerable errors (Ref. 6). Indeed, any disagreement between the total complementary element yields greater than would be expected to arise from the chain yield uncertainties, may be taken as a measure of the uncertainty of the calculated independent yields, but doing this one must take into account the smoothing action of the summation, and also the large range of magnitudes of the individual yields. Further tests are described in Appendix 1 and the results of these are given in Table 18.

4. Conclusion

A method of adjusting fission product yields (both chain and independent), to conform with physical conservation laws has been found and used to produce a set of adjusted chain yields for thermal, fast and 14 MeV fission. Calculated independent yields have then been corrected for odd-even Z effects and adjusted to conform with proton conservation using the adjusted chain yields. Finally the sums of the independent yields of the complementary elements have been calculated for comparison. Departure from equality indicates the uncertainty in the independent yields, and further tests indicate that the differences are probably consistent with the errors involved. However, in future work it would probably be better to fit all the required parameters simultaneously rather than piecemeal.

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APPENDIX 1

The relation of equations (3) and (5)

Starting with the L.H.S. of (3) which is the sum of all (yield of chain mass A) x (average atomic number of that chain), and substituting from (4) for $\bar{Z}(A)$

$$\sum_A Y(A).\bar{Z}(A) = \sum_A Y(A) \sum_Z Z.FIY(A,Z)$$

Then it will be seen that the resulting expression may be summed in two ways (e.g. by writing down the array of nuclides formed in fission in the manner of the 'Nuclide Chart'),

(a) along a chain of given mass A summing the products Z x FIY(A,Z) for each Z and finally multiplying the total by Y(A); then repeating for all mass numbers.

or (b) along a chain of given atomic numbers Z and summing the products Y(A) x FIY(A,Z) and finally multiplying by Z; then repeating for all atomic numbers i.e. for all elements.

Thus

$$\sum_A Y(A) \sum_Z Z.FIY(A,Z) = \sum_A \sum_Z Z.FIY(A.Z).Y(A)$$

$$= \sum_Z y(Z).Z$$

where y(Z) is the yield of element atomic number $Z = \sum_A Y(A),FIY(A,Z)$

Then let $\Delta y(Z) = y(Z) - y(Z_F-Z)$, and for even Z_F

$$\sum_A Y(A).\bar{Z}(A) = \sum_Z Z.y(Z)$$

$$= \left\{ \sum_{Z>1} \left(\frac{Z_F}{2} + Z\right).y\left(\frac{Z_F}{2} + Z\right)\right\} + \frac{Z_F}{2}.y\left(\frac{Z_F}{2}\right) + \left\{ \sum_{Z>1} \left(\frac{Z_F}{2} - Z\right).y\left(\frac{Z_F}{2} - Z\right)\right\}$$

(for odd Z_F there is a similar expression)

$$= \sum_{\text{all } Z} \frac{Z_F}{2}.y\left(\frac{Z_F}{2} + Z\right) + \sum_{Z>1} Z.\Delta y\left(\frac{Z_F}{2} + Z\right)$$

$$= \frac{Z_F}{2} \sum_Z y\left(\frac{Z_F}{2} + Z\right) + \sum_{Z>1} Z.\Delta y\left(\frac{Z_F}{2} + Z\right)$$

From the definition of y(Z)

$$\sum_Z y(Z) = \sum_Z \sum_A Y(A).FIY(A,Z) = 2 \qquad \text{since } \sum_Z FIY(A,Z) = 1 \text{ and } \sum_A Y(A) = 2$$

Hence $\sum_{A} Y(A) . \bar{Z}(A) = Z_F + \sum_{Z \geq 1} Z.\Delta y\left(\frac{Z_F}{2} + Z\right)$ ..... App. 1.1

But if (5) is true for all Z $\Delta y(Z) = 0$ by definition and

$$\sum_{A} Y(A) . \bar{Z}(A) = Z_F$$

which is equation (3).

APPENDIX 2

A better test of (3)

From (11) $\quad \sum_{A} Y(A) \bar{Z}(A) = Z_F/\theta$

$$= Z_F + \sum_{Z \geq 1} Z.\Delta y \left(\frac{Z_F}{2} + Z\right) \text{ from App. 1.1}$$

Then (say) $\phi = (\frac{1}{\theta} - 1) Z_F \times 100 = \sum_{Z \geq 1} Z.\Delta y\left(\frac{Z_F}{2} + Z\right)$ (The 100 is due to a change from fractional to percentage yields). ϕ should be 0 as θ should be 1, and

$$\mathrm{Var}(\phi) = \sum_{Z \geq 1} Z^2 . \left\{ \mathrm{Var}\, y \left(\frac{Z_F}{2} + Z\right) + \mathrm{Var}\, y\left(\frac{Z_F}{2} - Z\right) \right\}$$

(and it is assumed that the uncertainties in the yields of elements are uncorrelated).

Hence the values of ϕ and Var ϕ can be computed, the former from θ and the latter from the standard deviations of the complementary element yields as given in Table 19. ϕ and $(\mathrm{Var}\ \phi)^{\frac{1}{2}}$ are given in Table 18 and it can be seen that in general ϕ is a good estimate of 0 when compared with the standard deviation as estimated. Note that the uncertainties of Table 19 contain only the errors propagated from those of chain yields; it would seem likely that if the uncertainties of the independent yields were included even the 14 MeV results might be judged as supporting the hypothesis that $\phi = 0$. By the methods used in this paper the uncertainties in the independent yields are not well known and in future work it would seem better to fit all the parameters simultaneously by least squares.

APPENDIX 3

Further test by considering decay energies

The total decay energy E_d depends on the average chain length for β-decay, ΔZ so that

$$E_d \propto (\Delta Z)^2$$

very roughly. For a given set of yields in a decay heat calculation the calculated atomic number of the initial fragment is

$$\tfrac{1}{2}.\ \Sigma Y(A)\ \bar{Z}(A) = \tfrac{1}{2}.\ \frac{Z_F}{\theta} \text{ from (11)}$$

The true value is $\frac{Z_F}{2}$ so the error in the chain length is

$$\delta\ (\Delta Z) = \tfrac{1}{2}\ Z_F\ (\tfrac{1}{\theta} - 1) = \phi/200$$

Hence $\frac{\delta E_d}{E_d} \doteqdot \frac{2\ \delta(\Delta Z)}{\Delta Z} = (\phi/100)/\Delta Z$ and in %ge terms

$$\varepsilon \text{ (say)} = \frac{\delta E_d}{E_d} \times 100 = \phi/\Delta Z$$

The values of ε are given in Table 18; they are obtained by dividing ϕ by $\Delta Z = \frac{n\beta}{2}$ where nβ is the mean number of β-decays per fission as given in Ref. 7 and Ref. 8, and is not corrected for the effects of fission energy. The accuracy of ΔZ is stated (loc.cit) to be about ± 1% for ^{233}U and ^{235}U thermal fission and it will of course be greater than this for reactions the yields of which are less well known. ε as given in Table 18 is thus a rough estimate of the error which would occur if the yields of a reaction given in the tables of this paper were used to calculate the total decay energy for the reactions, and roughly its accuracy may be judged using var ϕ and var ΔZ as given above.

TABLE 1. ADJUSTED THERMAL FISSION YIELDS FOR 233U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.687E-03	0.150E+02	0.125E+01	73	0.287E-02	0.150E+02	0.125E+01	74	0.150E+02	0.125E+01	
75	0.586E-02	0.150E+02	0.125E+01	76	0.249E-01	0.150E+02	0.125E+01	77	0.150E+02	0.125E+01	
78	0.497E-01	0.150E+02	0.124E+01	79	0.207E+00	0.150E+02	0.122E+01	80	0.150E+02	0.124E+01	
81	0.399E+00	0.120E+02	0.120E+01	82	0.131E+01	0.400E+01	0.120E+01	83	0.150E+02	0.115E+01	
84	0.211E+01	0.400E+01	0.117E+01	85	0.340E+01	0.400E+01	0.111E+01	86	0.700E+01	0.107E+01	
87	0.385E+01	0.700E+01	0.920E+00	88	0.554E+01	0.500E+01	0.905E+00	89	0.200E+01	0.113E+01	
90	0.416E+01	0.400E+01	0.964E+00	91	0.682E+01	0.300E+01	0.102E+01	92	0.200E+01	0.110E+01	
93	0.714E+01	0.300E+01	0.101E+01	94	0.562E+01	0.500E+01	0.897E+00	95	0.300E+01	0.102E+01	
96	0.609E+01	0.300E+01	0.105E+01	97	0.438E+01	0.700E+01	0.837E+00	98	0.500E+01	0.936E+00	
99	0.534E+01	0.300E+01	0.108E+01	100	0.355E+01	0.300E+01	0.114E+01	101	0.160E+02	0.440E+00	
102	0.270E+01	0.300E+01	0.117E+01	103	0.121E+01	0.300E+01	0.121E+01	104	0.150E+02	0.977E+00	
105	0.604E+00	0.150E+02	0.116E+01	106	0.129E+00	0.150E+02	0.123E+01	107	0.300E+01	0.124E+01	
108	0.107E+00	0.150E+02	0.123E+01	109	0.359E-01	0.150E+02	0.124E+01	110	0.150E+02	0.124E+01	
111	0.249E-01	0.700E+01	0.125E+01	112	0.174E-01	0.150E+02	0.125E+01	113	0.900E+01	0.125E+01	
114	0.187E-01	0.150E+02	0.125E+01	115	0.192E-01	0.150E+02	0.125E+01	116	0.150E+02	0.125E+01	
117	0.187E-01	0.700E+01	0.125E+01	118	0.187E-01	0.700E+01	0.125E+01	119	0.700E+01	0.125E+01	
120	0.212E-01	0.700E+01	0.125E+01	121	0.237E-01	0.600E+01	0.125E+01	122	0.150E+02	0.125E+01	
123	0.298E-01	0.150E+02	0.124E+01	124	0.143E+00	0.110E+02	0.123E+01	125	0.150E+02	0.125E+01	
126	0.316E+00	0.150E+02	0.123E+01	127	0.112E+01	0.150E+02	0.107E+01	128	0.150E+02	0.115E+01	
129	0.157E+01	0.150E+02	0.977E+00	130	0.411E+01	0.200E+01	0.117E+01	131	0.150E+02	0.844E+00	
132	0.445E+01	0.600E+01	0.925E+00	133	0.640E+01	0.300E+01	0.104E+01	134	0.200E+01	0.112E+01	
135	0.612E+01	0.300E+01	0.105E+01	136	0.638E+01	0.300E+01	0.104E+01	137	0.500E+01	0.825E+00	
138	0.625E+01	0.300E+01	0.105E+01	139	0.655E+01	0.300E+01	0.104E+01	140	0.300E+01	0.104E+01	
141	0.514E+01	0.500E+01	0.834E+00	142	0.613E+01	0.300E+01	0.105E+01	143	0.400E+01	0.952E+00	
144	0.473E+01	0.400E+01	0.105E+01	145	0.287E+01	0.300E+01	0.117E+01	146	0.300E+01	0.113E+01	
147	0.265E+01	0.600E+01	0.113E+01	148	0.945E+00	0.300E+01	0.122E+01	149	0.400E+01	0.119E+01	
150	0.622E+00	0.200E+01	0.124E+01	151	0.245E+00	0.400E+01	0.124E+01	152	0.300E+01	0.124E+01	
153	0.122E+00	0.130E+02	0.123E+01	154	0.288E-01	0.150E+02	0.124E+01	155	0.100E+02	0.125E+01	
156	0.142E-01	0.100E+02	0.125E+01	157	0.293E-02	0.150E+02	0.125E+01	158	0.100E+02	0.125E+01	
159	0.114E-02	0.100E+02	0.125E+01	160	0.397E-03	0.100E+02	0.125E+01	161	0.150E+02	0.125E+01	

SUM OF YIELDS = 0.202E+03 SEE TEXT EQUATIONS 6.7 AND 8.

ALPHA = 0.126D+01 SEE TEXT EQUATIONS 6.7 AND 9.

BETA = -0.112D+03

TABLE 2. ADJUSTED THERMAL FISSION YIELDS FOR 235U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.145E-04	0.150E+02	0.993E+00	73	0.993E-04	0.150E+02	0.993E+00	74	0.337E-03	0.150E+02	0.993E+00
75	0.923E-03	0.150E+02	0.993E+00	76	0.258E-02	0.150E+02	0.993E+00	77	0.804E-02	0.110E+02	0.993E+00
78	0.199E-01	0.110E+02	0.993E+00	79	0.546E-01	0.100E+02	0.993E+00	80	0.109E+00	0.150E+02	0.994E+00
81	0.209E+00	0.100E+02	0.994E+00	82	0.331E+00	0.150E+02	0.995E+00	83	0.512E+00	0.400E+01	0.994E+00
84	0.955E+00	0.700E+01	0.996E+00	85	0.129E+01	0.300E+01	0.995E+00	86	0.189E+01	0.700E+01	0.100E+01
87	0.264E+01	0.500E+01	0.100E+01	88	0.370E+01	0.500E+01	0.100E+01	89	0.475E+01	0.140E+01	0.996E+00
90	0.605E+01	0.110E+02	0.103E+01	91	0.590E+01	0.200E+01	0.999E+00	92	0.593E+01	0.100E+01	0.996E+00
93	0.634E+01	0.300E+01	0.100E+01	94	0.641E+01	0.200E+01	0.100E+01	95	0.645E+01	0.200E+01	0.100E+01
96	0.623E+01	0.200E+01	0.100E+01	97	0.587E+01	0.250E+01	0.100E+01	98	0.574E+01	0.200E+01	0.999E+00
99	0.611E+01	0.150E+00	0.995E+00	100	0.626E+01	0.300E+01	0.100E+01	101	0.508E+01	0.500E+01	0.101E+01
102	0.417E+01	0.100E+01	0.995E+00	103	0.304E+01	0.600E+01	0.100E+01	104	0.181E+01	0.300E+01	0.996E+00
105	0.955E+00	0.400E+01	0.995E+00	106	0.388E+00	0.120E+02	0.995E+00	107	0.165E+00	0.150E+02	0.994E+00
108	0.695E-01	0.150E+02	0.993E+00	109	0.298E-01	0.300E+01	0.993E+00	110	0.194E-01	0.150E+02	0.993E+00
111	0.169E-01	0.150E+01	0.993E+00	112	0.847E-02	0.100E+01	0.993E+00	113	0.854E-02	0.150E+02	0.993E+00
114	0.895E-02	0.150E+02	0.993E+00	115	0.945E-03	0.140E+02	0.993E+00	116	0.963E-02	0.150E+02	0.993E+00
117	0.993E-02	0.150E+02	0.993E+00	118	0.993E-02	0.150E+02	0.993E+00	119	0.109E-01	0.150E+02	0.993E+00
120	0.109E-01	0.150E+02	0.993E+00	121	0.119E-01	0.400E+01	0.993E+00	122	0.129E-01	0.150E+02	0.993E+00
123	0.139E-01	0.200E+01	0.993E+00	124	0.169E-01	0.150E+02	0.993E+00	125	0.294E-01	0.900E+01	0.993E+00
126	0.993E-01	0.150E+02	0.993E+00	127	0.249E+00	0.150E+02	0.995E+00	128	0.499E+00	0.150E+02	0.997E+00
129	0.100E+01	0.150E+02	0.100E+01	130	0.202E+01	0.150E+02	0.101E+01	131	0.284E+01	0.200E+01	0.996E+00
132	0.424E+01	0.100E+01	0.995E+00	133	0.668E+01	0.500E+00	0.994E+00	134	0.774E+01	0.100E+01	0.997E+00
135	0.656E+01	0.700E+01	0.102E+01	136	0.654E+01	0.200E+01	0.100E+01	137	0.625E+01	0.100E+01	0.996E+00
138	0.681E+01	0.250E+01	0.100E+01	139	0.644E+01	0.200E+01	0.100E+01	140	0.628E+01	0.500E+00	0.994E+00
141	0.571E+01	0.300E+01	0.100E+01	142	0.585E+01	0.100E+01	0.996E+00	143	0.589E+01	0.200E+01	0.999E+00
144	0.541E+01	0.200E+01	0.999E+00	145	0.385E+01	0.100E+01	0.995E+00	146	0.294E+01	0.150E+01	0.995E+00
147	0.216E+01	0.400E+01	0.997E+00	148	0.168E+01	0.100E+01	0.994E+00	149	0.101E+01	0.600E+01	0.996E+00
150	0.632E+00	0.100E+01	0.993E+00	151	0.407E+00	0.200E+01	0.993E+00	152	0.232E+00	0.500E+01	0.993E+00
153	0.149E+00	0.300E+01	0.993E+00	154	0.647E-01	0.800E+01	0.993E+00	155	0.292E-01	0.500E+01	0.993E+00
156	0.149E 01	0.150E+02	0.993E+00	157	0.672E-02	0.100E+02	0.993E+00	158	0.199E-02	0.150E+02	0.993E+00
159	0.100E-02	0.800E+01	0.993E+00	160	0.258E-03	0.150E+02	0.993E+00	161	0.797E-04	0.700E+01	0.993E+00

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.9926D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.5576D+01 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 3. ADJUSTED THERMAL FISSION YIELDS FOR 239PU.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.885E-04	0.150E+02	0.804E+00	73	0.209E-03	0.150E+02	0.804E+00	74	0.475E-03	0.150E+02	0.805E+00
75	0.105E-02	0.150E+02	0.805E+00	76	0.241E-02	0.150E+02	0.805E+00	77	0.572E-02	0.100E+02	0.805E+00
78	0.210E-01	0.100E+02	0.806E+00	79	0.291E-01	0.150E+02	0.809E+00	80	0.651E-01	0.150E+02	0.814E+00
81	0.149E+00	0.100E+02	0.819E+00	82	0.200E+00	0.150E+02	0.832E+00	83	0.239E+00	0.300E+01	0.911E+00
84	0.392E+00	0.400E+01	0.810E+00	85	0.464E+00	0.600E+01	0.830E+00	86	0.665E+00	0.100E+02	0.864E+00
87	0.830E+00	0.700E+01	0.857E+00	88	0.119E+01	0.700E+01	0.878E+00	89	0.141E+01	0.300E+01	0.843E+00
90	0.185E+01	0.500E+01	0.885E+00	91	0.218E+01	0.400E+01	0.881E+00	92	0.256E+01	0.200E+01	0.851E+00
93	0.338E+01	0.200E+01	0.865E+00	94	0.389E+01	0.200E+01	0.873E+00	95	0.487E+01	0.500E+01	0.994E+00
96	0.449E+01	0.200E+01	0.883E+00	97	0.517E+01	0.300E+01	0.933E+00	98	0.692E+01	0.100E+02	0.124E+01
99	0.588E+01	0.300E+01	0.949E+00	100	0.894E+01	0.100E+02	0.133E+01	101	0.714E+01	0.800E+01	0.118E+01
102	0.678E+01	0.700E+01	0.113E+01	103	0.608E+01	0.700E+01	0.110E+01	104	0.732E+01	0.900E+01	0.122E+01
105	0.672E+01	0.100E+02	0.123E+01	106	0.407E+01	0.400E+01	0.939E+00	107	0.302E+01	0.150E+02	0.112E+01
108	0.170E+01	0.150E+02	0.100E+01	109	0.914E+00	0.500E+01	0.946E+00	110	0.459E+00	0.150E+02	0.866E+00
111	0.218E+00	0.500E+01	0.815E+00	112	0.759E-01	0.400E+01	0.807E+00	113	0.528E-01	0.150E+02	0.812E+00
114	0.421E-01	0.150E+02	0.810E+00	115	0.300E-01	0.110E+02	0.808E+00	116	0.307E-01	0.150E+02	0.809E+00
117	0.315E-01	0.150E+02	0.809E+00	118	0.315E-01	0.150E+02	0.809E+00	119	0.324E-01	0.150E+02	0.809E+00
120	0.340E-01	0.150E+02	0.809E+00	121	0.341E-01	0.150E+02	0.809E+00	122	0.397E-01	0.150E+02	0.810E+00
123	0.470E-01	0.150E+02	0.811E+00	124	0.635E-01	0.150E+02	0.814E+00	125	0.946E-01	0.120E+02	0.815E+00
126	0.200E+00	0.150E+02	0.832E+00	127	0.443E+00	0.150E+02	0.864E+00	128	0.748E+00	0.150E+02	0.901E+00
129	0.133E+01	0.150E+02	0.965E+00	130	0.246E+01	0.150E+02	0.107E+01	131	0.318E+01	0.200E+01	0.862E+00
132	0.472E+01	0.300E+01	0.923E+00	133	0.721E+01	0.500E+01	0.107E+01	134	0.704E+01	0.300E+01	0.973E+00
135	0.725E+01	0.400E+01	0.102E+01	136	0.820E+01	0.100E+02	0.129E+01	137	0.716E+01	0.600E+01	0.111E+01
138	0.596E+01	0.500E+01	0.103E+01	139	0.593E+01	0.500E+01	0.103E+01	140	0.568E+01	0.500E+01	0.102E+01
141	0.568E+01	0.400E+01	0.984E+00	142	0.525E+01	0.600E+01	0.104E+01	143	0.431E+01	0.500E+01	0.976E+00
144	0.379E+01	0.600E+01	0.933E+00	145	0.298E+01	0.600E+01	0.950E+00	146	0.242E+01	0.800E+01	0.961E+00
147	0.186E+01	0.600E+01	0.901E+00	148	0.149E+01	0.500E+01	0.871E+00	149	0.108E+01	0.700E+01	0.872E+00
150	0.802E+00	0.300E+01	0.827E+00	151	0.665E+00	0.600E+01	0.841E+00	152	0.488E+00	0.100E+02	0.849E+00
153	0.321E+00	0.100E+02	0.834E+00	154	0.215E+00	0.120E+02	0.829E+00	155	0.179E+00	0.150E+02	0.830E+00
156	0.699E-01	0.120E+02	0.812E+00	157	0.610E-01	0.150E+02	0.813E+00	158	0.324E-01	0.150E+02	0.809E+00
159	0.169E 01	0.100E+02	0.806E+00	160	0.806E-02	0.150E+02	0.806E+00	161	0.378E-02	0.120E+02	0.805E+00

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.8044D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.7747D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 4. ADJUSTED THERMAL FISSION YIELDS FOR 241PU.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
78	0.877E-02	0.150E+02	0.102E+01	79	0.193E-01	0.150E+02	0.102E+01	80	0.347E-01	0.150E+02	0.102E+01
81	0.6[illegible]2E-01	0.150E+02	0.102E+01	82	0.107E+00	0.150E+02	0.102E+01	83	0.205E+00	0.300E+01	0.102E+01
84	0.36[illegible]E+00	0.300E+01	0.102E+01	85	0.394E+00	0.100E+02	0.102E+01	86	0.611E+00	0.100E+02	0.102E+01
87	0.753E+00	0.100E+02	0.102E+01	88	0.969E+00	0.100E+02	0.102E+01	89	0.120E+01	0.150E+02	0.101E+01
90	0.1[illegible]5E+01	0.100E+02	0.101E+01	91	0.179E+01	0.500E+01	0.102E+01	92	0.225E+01	0.100E+02	0.101E+01
93	0.292E+01	0.100E+02	0.101E+01	94	0.335E+01	0.100E+02	0.101E+01	95	0.405E+01	0.400E+01	0.101E+01
96	0.434E+01	0.100E+02	0.100E+01	97	0.482E+01	0.300E+01	0.101E+01	98	0.543E+01	0.150E+02	0.987E+00
99	0.622E+01	0.300E+01	0.101E+01	100	0.590E+01	0.150E+02	0.984E+00	101	0.592E+01	0.100E+02	0.996E+00
102	0.629E+01	0.100E+02	0.995E+00	103	0.647E+01	0.150E+02	0.980E+00	104	0.675E+01	0.100E+02	0.993E+00
105	0.6[illegible]7E+01	0.150E+02	0.980E+00	106	0.605E+01	0.100E+02	0.995E+00	107	0.509E+01	0.150E+02	0.989E+00
108	0.413E+01	0.150E+02	0.995E+00	109	0.291E+01	0.150E+02	0.100E+01	110	0.142E+01	0.150E+02	0.101E+01
111	0.498E+00	0.150E+02	0.102E+01	112	0.326E+00	0.150E+02	0.102E+01	113	0.150E+00	0.150E+02	0.102E+01
114	0.662E-01	0.150E+02	0.102E+01	115	0.377E-01	0.110E+02	0.102E+01	116	0.336E-01	0.150E+02	0.102E+01
117	0.316E-01	0.150E+02	0.102E+01	118	0.306E-01	0.150E+02	0.102E+01	119	0.296E-01	0.150E+02	0.102E+01
120	0.296E-01	0.150E+02	0.102E+01	121	0.306E-01	0.150E+02	0.102E+01	122	0.316E-01	0.150E+02	0.102E+01
123	0.324E-01	0.150E+02	0.102E+01	124	0.367E-01	0.150E+02	0.102E+01	125	0.428E-01	0.150E+02	0.102E+01
126	0.102E+00	0.150E+02	0.102E+01	127	0.214E+00	0.150E+02	0.102E+01	128	0.417E+00	0.150E+02	0.102E+01
129	0.832E+00	0.150E+02	0.101E+01	130	0.167E+01	0.150E+02	0.101E+01	131	0.319E+01	0.300E+01	0.102E+01
132	0.465E+01	0.300E+01	0.101E+01	133	0.672E+01	0.300E+01	0.101E+01	134	0.807E+01	0.300E+01	0.101E+01
135	0.712E+01	0.500E+01	0.101E+01	136	0.708E+01	0.500E+01	0.101E+01	137	0.660E+01	0.300E+01	0.101E+01
138	0.6[illegible]E+01	0.300E+01	0.101E+01	139	0.619E+01	0.150E+02	0.982E+00	140	0.590E+01	0.300E+01	0.101E+01
141	0.485E+01	0.300E+01	0.101E+01	142	0.484E+01	0.300E+01	0.101E+01	143	0.446E+01	0.300E+01	0.101E+01
144	0.416E+01	0.200E+01	0.102E+01	145	0.319E+01	0.200E+01	0.102E+01	146	0.270E+01	0.200E+01	0.102E+01
147	0.230E+01	0.300E+01	0.102E+01	148	0.190E+01	0.200E+01	0.102E+01	149	0.150E+01	0.300E+01	0.102E+01
150	0.118E+01	0.400E+01	0.102E+01	151	0.919E+00	0.600E+01	0.102E+01	152	0.755E+00	0.400E+01	0.102E+01
153	0.5[illegible]0E+00	0.400E+01	0.102E+01	154	0.396E+00	0.500E+01	0.102E+01	155	0.235E+00	0.900E+01	0.102E+01
156	0.173E+00	0.500E+01	0.102E+01	157	0.133E+00	0.500E+01	0.102E+01	158	0.876E-01	0.150E+02	0.102E+01
159	0.471E-01	0.500E+01	0.102E+01	160	0.245E-01	0.150E+02	0.102E+01	161	0.830E-02	0.500E+01	0.102E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1020D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.3957D+01 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 5. ADJUSTED FAST FISSION YIELDS FOR 232TH.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.963E-04	0.150E+02	0.708E+00	73	0.248E-03	0.300E+02	0.708E+00	74	0.708E-03	0.100E+02	0.708E+00
75	0.135E-02	0.100E+02	0.708E+00	76	0.283E-02	0.100E+02	0.708E+00	77	0.780E-02	0.240E+02	0.709E+00
78	0.142E-01	0.100E+02	0.709E+00	79	0.384E-01	0.100E+02	0.711E+00	80	0.931E-01	0.100E+02	0.716E+00
81	0.218E+00	0.100E+02	0.726E+00	82	0.494E+00	0.100E+02	0.748E+00	83	0.154E+01	0.400E+01	0.758E+00
84	0.340E+01	0.100E+02	0.931E+00	85	0.367E+01	0.100E+02	0.946E+00	86	0.646E+01	0.100E+02	0.108E+01
87	0.730E+01	0.100E+02	0.111E+01	88	0.784E+01	0.100E+02	0.113E+01	89	0.641E+01	0.500E+01	0.921E+00
90	0.600E+01	0.300E+01	0.840E+00	91	0.675E+01	0.700E+01	0.998E+00	92	0.628E+01	0.100E+02	0.115E+01
93	0.113E+02	0.150E+02	0.143E+01	94	0.781E+01	0.100E+02	0.113E+01	95	0.546E+01	0.500E+01	0.895E+00
96	0.834E+01	0.100E+02	0.103E+01	97	0.449E+01	0.900E+01	0.965E+00	98	0.346E+01	0.100E+02	0.935E+00
99	0.220E+01	0.500E+01	0.793E+00	100	0.102E+01	0.100E+02	0.788E+00	101	0.826E+00	0.100E+02	0.721E+00
102	0.270E+00	0.100E+02	0.731E+00	103	0.107E+00	0.600E+01	0.713E+00	104	0.714E-01	0.100E+02	0.714E+00
105	0.914E-01	0.140E+02	0.714E+00	106	0.306E-01	0.100E+02	0.710E+00	107	0.320E-01	0.100E+02	0.711E+00
108	0.334E-01	0.100E+02	0.711E+00	109	0.355E-01	0.700E+01	0.710E+00	110	0.355E-01	0.100E+02	0.711E+00
111	0.353E-01	0.140E+02	0.712E+00	112	0.406E-01	0.140E+02	0.713E+00	113	0.319E-01	0.700E+01	0.710E+00
114	0.370E-01	0.100E+02	0.711E+00	115	0.356E-01	0.150E+02	0.712E+00	116	0.363E-01	0.100E+02	0.711E+00
117	0.355E-01	0.100E+02	0.711E+00	118	0.341E-01	0.100E+02	0.711E+00	119	0.334E-01	0.100E+02	0.711E+00
120	0.334E-01	0.100E+02	0.711E+00	121	0.328E-01	0.150E+02	0.712E+00	122	0.306E-01	0.100E+02	0.710E+00
123	0.306E-01	0.100E+02	0.710E+00	124	0.306E-01	0.100E+02	0.710E+00	125	0.263E-01	0.150E+02	0.711E+00
126	0.714E-01	0.100E+01	0.714E+00	127	0.123E+00	0.150E+02	0.723E+00	128	0.218E+00	0.100E+02	0.726E+00
129	0.377E+00	0.100E+02	0.739E+00	130	0.720E+00	0.100E+02	0.766E+00	131	0.126E+01	0.300E+01	0.739E+00
132	0.212E+01	0.190E+02	0.564E+00	133	0.352E+01	0.100E+02	0.938E+00	134	0.558E+01	0.100E+02	0.104E+01
135	0.463E+01	0.100E+02	0.594E+00	136	0.575E+01	0.700E+01	0.946E+00	137	0.595E+01	0.500E+01	0.908E+00
138	0.796E+01	0.100E+02	0.114E+01	139	0.790E+01	0.900E+01	0.110E+01	140	0.826E+01	0.800E+01	0.108E+01
141	0.657E+01	0.500E+01	0.926E+00	142	0.761E+01	0.100E+02	0.113E+01	143	0.655E+01	0.600E+01	0.959E+00
144	0.672E+01	0.400E+01	0.893E+00	145	0.578E+01	0.100E+02	0.102E+01	146	0.472E+01	0.100E+02	0.996E+00
147	0.242E+01	0.600E+01	0.817E+00	148	0.174E+01	0.100E+02	0.836E+00	149	0.955E+00	0.100E+02	0.783E+00
150	0.383E+00	0.100E+02	0.772E+00	151	0.245E+00	0.150E+02	0.750E+00	152	0.210E+00	0.100E+02	0.726E+00
153	0.160E+00	0.150E+02	0.728E+00	154	0.256E-01	0.100E+02	0.710E+00	155	0.638E-02	0.100E+02	0.708E+00
156	0.209E-02	0.150E+02	0.708E+00	157	0.0	0.0	0.0	158	0.0	0.0	0.0

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.7078D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.6138D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 6. ADJUSTED FAST FISSION YIELDS FOR 233U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.128E-03	0.150E+02	0.160E+01	73	0.320E-03	0.150E+02	0.160E+01	74	0.448E-02	0.150E+02	0.160E+01
75	0.113E-01	0.150E+02	0.160E+01	76	0.320E-01	0.150E+02	0.160E+01	77	0.107E+00	0.150E+02	0.159E+01
78	0.154E+00	0.150E+02	0.159E+01	79	0.253E+00	0.150E+02	0.158E+01	80	0.362E+00	0.150E+02	0.157E+01
81	0.605E+00	0.150E+02	0.155E+01	82	0.126E+01	0.150E+02	0.149E+01	83	0.241E+01	0.150E+02	0.138E+01
84	0.347E+01	0.150E+02	0.125E+01	85	0.366E+01	0.150E+02	0.119E+01	86	0.476E+01	0.150E+02	0.983E+00
87	0.480E+01	0.150E+02	0.969E+00	88	0.495E+01	0.150E+02	0.895E+00	89	0.835E+01	0.500E+01	0.134E+01
90	0.502E+01	0.150E+02	0.779E+00	91	0.501E+01	0.150E+02	0.760E+00	92	0.500E+01	0.150E+02	0.752E+00
93	0.499E+01	0.150E+02	0.740E+00	94	0.501E+01	0.150E+02	0.757E+00	95	0.502E+01	0.150E+02	0.775E+00
96	0.501E+01	0.150E+02	0.833E+00	97	0.501E+01	0.150E+02	0.840E+00	98	0.493E+01	0.150E+02	0.909E+00
99	0.407E+01	0.100E+01	0.128E+01	100	0.382E+01	0.100E+02	0.136E+01	101	0.201E+01	0.100E+02	0.145E+01
102	0.162E+01	0.100E+02	0.151E+01	103	0.876E+00	0.550E+02	0.131E+01	104	0.642E+00	0.100E+02	0.157E+01
105	0.395E+00	0.100E+02	0.158E+01	106	0.247E+00	0.600E+01	0.159E+01	107	0.180E+00	0.100E+02	0.159E+01
108	0.129E+00	0.100E+02	0.159E+01	109	0.958E-01	0.100E+02	0.160E+01	110	0.671E-01	0.100E+02	0.160E+01
111	0.513E-01	0.400E+02	0.159E+01	112	0.344E-01	0.100E+02	0.160E+01	113	0.623E-01	0.100E+02	0.160E+01
114	0.087E-01	0.100E+02	0.160E+01	115	0.894E-01	0.110E+02	0.160E+01	116	0.846E-01	0.100E+02	0.160E+01
117	0.926E-01	0.100E+02	0.160E+01	118	0.958E-01	0.100E+02	0.160E+01	119	0.118E+00	0.120E+02	0.159E+01
120	0.132E+00	0.110E+02	0.159E+01	121	0.139E+00	0.100E+02	0.159E+01	122	0.132E+00	0.110E+02	0.159E+01
123	0.170E+00	0.100E+02	0.159E+01	124	0.191E+00	0.100E+02	0.159E+01	125	0.317E+00	0.100E+02	0.158E+01
126	0.451E+00	0.100E+02	0.158E+01	127	0.147E+01	0.150E+02	0.147E+01	128	0.187E+01	0.150E+02	0.144E+01
129	0.220E+01	0.150E+02	0.140E+01	130	0.366E+01	0.150E+02	0.122E+01	131	0.411E+01	0.150E+02	0.114E+01
132	0.487E+01	0.150E+02	0.937E+00	133	0.471E+01	0.150E+02	0.100E+01	134	0.500E+01	0.150E+02	0.848E+00
135	0.502E+01	0.150E+02	0.823E+00	136	0.502E+01	0.150E+02	0.810E+00	137	0.872E+01	0.500E+01	0.132E+01
138	0.502E+01	0.150E+02	0.784E+00	139	0.501E+01	0.150E+02	0.842E+00	140	0.739E+01	0.800E+01	0.117E+01
141	0.756E+01	0.300E+01	0.114E+01	142	0.623E+01	0.100E+02	0.113E+01	143	0.476E+01	0.150E+02	0.985E+00
144	0.433E+01	0.150E+02	0.110E+01	145	0.393E+01	0.100E+02	0.135E+01	146	0.299E+01	0.100E+02	0.142E+01
147	0.222E+01	0.150E+02	0.140E+01	148	0.159E+01	0.100E+02	0.151E+01	149	0.113E+01	0.150E+02	0.151E+01
150	0.703E+00	0.100E+02	0.156E+01	151	0.499E+00	0.150E+02	0.156E+01	152	0.293E+00	0.100E+02	0.159E+01
153	0.164E+00	0.150E+02	0.159E+01	154	0.974E-01	0.100E+02	0.160E+01	155	0.560E-01	0.100E+02	0.160E+01
156	0.336E-01	0.100E+02	0.160E+01	157	0.184E-01	0.150E+02	0.160E+01	158	0.737E-02	0.100E+02	0.160E+01
159	0.275E-02	0.150E+02	0.160E+01	160	0.141E-02	0.100E+02	0.160E+01	161	0.759E-03	0.100E+02	0.160E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1602D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.8515D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 7. ADJUSTED FAST FISSION YIELDS FOR 235U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
78	0.581E-01	0.100E+02	0.104E+01	79	0.954E-01	0.100E+02	0.104E+01	80	0.155E+00	0.100E+02	0.104E+01
81	0.259E+00	0.100E+02	0.104E+01	82	0.403E+00	0.100E+02	0.103E+01	83	0.635E+00	0.100E+02	0.103E+01
84	0.111E+01	0.300E+01	0.104E+01	85	0.146E+01	0.500E+01	0.103E+01	86	0.199E+01	0.300E+01	0.102E+01
87	0.262E+01	0.400E+01	0.103E+01	88	0.374E+01	0.300E+01	0.103E+01	89	0.448E+01	0.600E+01	0.102E+01
90	0.524E+01	0.300E+01	0.103E+01	91	0.512E+01	0.100E+02	0.100E+01	92	0.541E+01	0.100E+02	0.100E+01
93	0.570E+01	0.100E+02	0.100E+01	94	0.608E+01	0.100E+02	0.997E+00	95	0.661E+01	0.250E+01	0.102E+01
96	0.618E+01	0.100E+02	0.996E+00	97	0.607E+01	0.250E+01	0.103E+01	98	0.619E+01	0.300E+01	0.103E+01
99	0.571E+01	0.250E+01	0.103E+01	100	0.651E+01	0.300E+01	0.102E+01	101	0.560E+01	0.300E+01	0.103E+01
102	0.478E+01	0.300E+01	0.103E+01	103	0.338E+01	0.600E+01	0.102E+01	104	0.243E+01	0.300E+01	0.103E+01
105	0.149E+01	0.100E+02	0.103E+01	106	0.450E+00	0.270E+02	0.103E+01	107	0.186E+00	0.100E+02	0.104E+01
108	0.726E-01	0.100E+02	0.104E+01	109	0.570E-01	0.100E+02	0.104E+01	110	0.467E-01	0.100E+02	0.104E+01
111	0.290E-01	0.110E+02	0.104E+01	112	0.405E-01	0.500E+01	0.104E+01	113	0.355E-01	0.500E+01	0.104E+01
114	0.355E-01	0.500E+01	0.104E+01	115	0.228E-01	0.150E+02	0.104E+01	116	0.373E-01	0.500E+01	0.104E+01
117	0.384E-01	0.100E+02	0.104E+01	118	0.404E-01	0.100E+02	0.104E+01	119	0.435E-01	0.100E+02	0.104E+01
120	0.456E-01	0.100E+02	0.104E+01	121	0.477E-01	0.100E+02	0.104E+01	122	0.498E-01	0.100E+02	0.104E+01
123	0.570E-01	0.100E+02	0.104E+01	124	0.622E-01	0.100E+02	0.104E+01	125	0.757E-01	0.120E+02	0.104E+01
126	0.114E+00	0.100E+02	0.104E+01	127	0.207E+00	0.100E+02	0.104E+01	128	0.331E+00	0.100E+02	0.104E+01
129	0.568E+00	0.110E+02	0.103E+01	130	0.144E+01	0.100E+02	0.103E+01	131	0.333E+01	0.300E+01	0.103E+01
132	0.443E+01	0.600E+01	0.102E+01	133	0.673E+01	0.300E+01	0.102E+01	134	0.729E+01	0.300E+01	0.102E+01
135	0.639E+01	0.400E+01	0.102E+01	136	0.608E+01	0.300E+01	0.103E+01	137	0.607E+01	0.600E+01	0.101E+01
138	0.676E+01	0.300E+01	0.102E+01	139	0.618E+01	0.100E+02	0.996E+00	140	0.599E+01	0.200E+01	0.103E+01
141	0.614E+01	0.300E+01	0.103E+01	142	0.597E+01	0.300E+01	0.103E+01	143	0.595E+01	0.300E+01	0.103E+01
144	0.504E+01	0.500E+01	0.102E+01	145	0.394E+01	0.200E+01	0.103E+01	146	0.306E+01	0.300E+01	0.103E+01
147	0.209E+01	0.500E+01	0.103E+01	148	0.177E+01	0.200E+01	0.103E+01	149	0.113E+01	0.300E+01	0.104E+01
150	0.743E+00	0.500E+01	0.103E+01	151	0.456E+00	0.300E+01	0.104E+01	152	0.320E+00	0.300E+01	0.104E+01
153	0.203E+00	0.150E+02	0.104E+01	154	0.102E+00	0.300E+01	0.104E+01	155	0.363E-01	0.100E+02	0.104E+01
156	0.157E-01	0.150E+02	0.104E+01	157	0.882E-02	0.100E+02	0.104E+01	158	0.498E-02	0.100E+02	0.104E+01
159	0.322E-02	0.150E+02	0.104E+01	160	0.104E-02	0.100E+02	0.104E+01	161	0.415E-03	0.150E+02	0.104E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1637D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.6581D+01 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 8. ADJUSTED FAST FISSION YIELDS FOR 238U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
75	0.564E-04	0.150E+02	0.188E+00	76	0.188E-03	0.150E+02	0.188E+00	77	0.681E-03	0.130E+02	0.189E+00
78	0.267E-02	0.150E+02	0.191E+00	79	0.807E-02	0.150E+02	0.197E+00	80	0.180E-01	0.150E+02	0.207E+00
81	0.356E-01	0.150E+02	0.223E+00	82	0.635E-01	0.150E+02	0.244E+00	83	0.110E+00	0.150E+02	0.275E+00
84	0.169E+00	0.150E+02	0.307E+00	85	0.253E+00	0.150E+02	0.346E+00	86	0.673E+00	0.150E+02	0.487E+00
87	0.947E+00	0.150E+02	0.557E+00	88	0.135E+01	0.150E+02	0.644E+00	89	0.175E+01	0.800E+01	0.554E+00
90	0.202E+01	0.100E+02	0.642E+00	91	0.394E+01	0.150E+02	0.102E+01	92	0.486E+01	0.150E+02	0.113E+01
93	0.575E+01	0.150E+02	0.121E+01	94	0.665E+01	0.150E+02	0.130E+01	95	0.371E+01	0.600E+01	0.669E+00
96	0.587E+01	0.100E+02	0.102E+01	97	0.362E+01	0.500E+01	0.614E+00	98	0.653E+01	0.100E+02	0.107E+01
99	0.345E+01	0.400E+01	0.551E+00	100	0.677E+01	0.100E+02	0.109E+01	101	0.960E+01	0.150E+02	0.154E+01
102	0.989E+01	0.150E+02	0.156E+01	103	0.793E+01	0.130E+02	0.132E+01	104	0.845E+01	0.150E+02	0.145E+01
105	0.279E+01	0.120E+02	0.796E+00	106	0.164E+01	0.900E+01	0.566E+00	107	0.611E+00	0.150E+02	0.470E+00
108	0.203E+00	0.150E+02	0.325E+00	109	0.463E-01	0.150E+02	0.231E+00	110	0.291E-01	0.100E+02	0.208E+00
111	0.151E-01	0.700E+01	0.196E+00	112	0.142E-01	0.150E+02	0.203E+00	113	0.108E-01	0.100E+02	0.196E+00
114	0.599E-02	0.100E+02	0.195E+00	115	0.793E-02	0.120E+02	0.195E+00	116	0.684E-02	0.150E+02	0.195E+00
117	0.664E-02	0.150E+02	0.195E+00	118	0.664E-02	0.150E+02	0.195E+00	119	0.664E-02	0.150E+02	0.195E+00
120	0.664E-02	0.150E+02	0.195E+00	121	0.704E-02	0.150E+02	0.196E+00	122	0.725E-02	0.150E+02	0.196E+00
123	0.766E-02	0.150E+02	0.196E+00	124	0.837E-02	0.150E+02	0.197E+00	125	0.169E-01	0.260E+02	0.217E+00
126	0.210E-01	0.150E+02	0.210E+00	127	0.396E-01	0.310E+02	0.257E+00	128	0.152E+00	0.150E+02	0.299E+00
129	0.357E+00	0.150E+02	0.389E+00	130	0.124E+01	0.150E+02	0.622E+00	131	0.163E+01	0.500E+01	0.450E+00
132	0.309E+01	0.700E+01	0.651E+00	133	0.839E+01	0.150E+02	0.145E+01	134	0.108E+02	0.150E+02	0.163E+01
135	0.500E+01	0.150E+02	0.149E+01	136	0.113E+02	0.150E+02	0.166E+01	137	0.649E+01	0.700E+01	0.910E+00
138	0.776E+01	0.100E+02	0.116E+01	139	0.693E+01	0.100E+02	0.110E+01	140	0.275E+01	0.300E+01	0.452E+00
141	0.559E+01	0.100E+02	0.998E+00	142	0.491E+01	0.100E+02	0.942E+00	143	0.424E+01	0.100E+02	0.883E+00
144	0.393E+01	0.100E+02	0.854E+00	145	0.341E+01	0.100E+02	0.803E+00	146	0.299E+01	0.100E+02	0.758E+00
147	0.140E+01	0.500E+01	0.532E+00	148	0.112E+01	0.800E+01	0.466E+00	149	0.102E+01	0.150E+02	0.574E+00
150	0.601E+00	0.100E+03	0.404E+00	151	0.347E+00	0.100E+02	0.337E+00	152	0.187E+00	0.100E+02	0.283E+00
153	0.121E+00	0.150E+02	0.281E+00	154	0.471E-01	0.100E+02	0.219E+00	155	0.231E-01	0.100E+02	0.204E+00
156	0.197E+00	0.110E+02	0.295E+00	157	0.596E-02	0.100E+02	0.192E+00	158	0.304E-02	0.100E+02	0.190E+00
159	0.157E-02	0.150E+02	0.190E+00	160	0.603E-03	0.100E+02	0.188E+00	161	0.280E-03	0.110E+02	0.188E+00

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1879D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.1447D+03 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 9. ADJUSTED FAST FISSION YIELDS FOR 239PU.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
75	0.198E-03	0.150E+02	0.661E+00	76	0.728E-02	0.100E+02	0.662E+00	77	0.892E-02	0.320E+02	0.666E+00
78	0.232E-01	0.500E+01	0.663E+00	79	0.360E-01	0.100E+02	0.667E+00	80	0.604E-01	0.100E+02	0.671E+00
81	0.947E-01	0.100E+02	0.676E+00	82	0.165E+00	0.100E+02	0.687E+00	83	0.249E+00	0.800E+01	0.692E+00
84	0.387E+00	0.500E+01	0.691E+00	85	0.469E+00	0.500E+01	0.697E+00	86	0.625E+00	0.500E+01	0.709E+00
87	0.840E+00	0.500E+01	0.724E+00	88	0.106E+01	0.500E+01	0.739E+00	89	0.146E+01	0.600E+01	0.783E+00
90	0.216E+01	0.140E+02	0.992E+00	91	0.207E+01	0.500E+01	0.801E+00	92	0.260E+01	0.500E+01	0.831E+00
93	0.341E+01	0.500E+01	0.873E+00	94	0.396E+01	0.500E+01	0.899E+00	95	0.396E+01	0.300E+01	0.818E+00
96	0.479E+01	0.500E+01	0.938E+00	97	0.428E+01	0.250E+01	0.805E+00	98	0.567E+01	0.500E+01	0.976E+00
99	0.494E+01	0.300E+01	0.850E+00	100	0.694E+01	0.500E+01	0.103E+01	101	0.711E+01	0.500E+01	0.103E+01
102	0.724E+01	0.500E+01	0.104E+01	103	0.699E+01	0.500E+01	0.103E+01	104	0.696E+01	0.500E+01	0.103E+01
105	0.748E+01	0.100E+02	0.129E+01	106	0.570E+01	0.100E+02	0.118E+01	107	0.364E+01	0.100E+02	0.104E+01
108	0.221E+01	0.100E+02	0.921E+00	109	0.172E+01	0.150E+02	0.954E+00	110	0.726E+00	0.100E+02	0.764E+00
111	0.319E+00	0.140E+02	0.728E+00	112	0.101E+00	0.510E+02	0.737E+00	113	0.618E-01	0.150E+02	0.676E+00
114	0.650E-01	0.500E+01	0.666E+00	115	0.860E-01	0.700E+02	0.748E+00	116	0.424E-01	0.300E+01	0.663E+00
117	0.427E-01	0.100E+02	0.668E+00	118	0.434E-01	0.100E+02	0.668E+00	119	0.441E-01	0.100E+02	0.668E+00
120	0.448E-01	0.100E+02	0.668E+00	121	0.454E-01	0.100E+02	0.668E+00	122	0.461E-01	0.100E+02	0.668E+00
123	0.468E-01	0.100E+02	0.669E+00	124	0.809E-01	0.100E+02	0.674E+00	125	0.130E+00	0.110E+02	0.684E+00
126	0.215E+00	0.100E+02	0.695E+00	127	0.373E+00	0.100E+02	0.717E+00	128	0.598E+00	0.100E+02	0.748E+00
129	0.996E+00	0.150E+02	0.851E+00	130	0.176E+01	0.100E+02	0.878E+00	131	0.401E+01	0.500E+01	0.902E+00
132	0.517E+01	0.500E+01	0.955E+00	133	0.715E+01	0.500E+01	0.104E+01	134	0.109E+02	0.500E+01	0.117E+01
135	0.806E+01	0.300E+01	0.107E+01	136	0.717E+01	0.300E+01	0.104E+01	137	0.927E+01	0.100E+02	0.139E+01
138	0.462E+01	0.500E+01	0.930E+00	139	0.606E+01	0.500E+01	0.992E+00	140	0.408E+01	0.200E+01	0.775E+00
141	0.534E+01	0.400E+01	0.914E+00	142	0.460E+01	0.500E+01	0.929E+00	143	0.359E+01	0.300E+01	0.806E+00
144	0.366E+01	0.100E+02	0.104E+01	145	0.232E+01	0.300E+01	0.760E+00	146	0.187E+01	0.300E+01	0.743E+00
147	0.181E+01	0.100E+02	0.683E+00	148	0.124E+01	0.300E+01	0.717E+00	149	0.999E+00	0.500E+01	0.735E+00
150	0.738E+00	0.300E+01	0.695E+00	151	0.593E+00	0.500E+01	0.706E+00	152	0.477E+00	0.500E+01	0.698E+00
153	0.379E+00	0.150E+02	0.744E+00	154	0.220E+00	0.500E+01	0.678E+00	155	0.165E+00	0.100E+02	0.687E+00
156	0.109E+00	0.150E+02	0.687E+00	157	0.719E-01	0.400E+01	0.666E+00	158	0.481E-01	0.100E+02	0.669E+00
159	0.300E-01	0.100E+02	0.666E+00	160	0.219E-01	0.100E+02	0.665E+00	161	0.153E-01	0.100E+02	0.663E+00

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.6609D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.1084D+03 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 10. ADJUSTED FAST FISSION YIELDS FOR 240PU.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
75	0.250E-03	0.150E+02	0.125E+01	76	0.87[illegible]E-03	0.150E+02	0.125E+01	77	0.175E-01	0.150E+02	0.125E+01
78	0.35[illegible]E-01	0.150E+02	0.125E+01	79	0.673E-01	0.150E+02	0.125E+01	80	0.112E+00	0.150E+02	0.124E+01
81	0.135E+00	0.150E+02	0.124E+01	82	0.260E+00	0.150E+02	0.124E+01	83	0.394E+00	0.150E+02	0.123E+01
84	0.551E+00	0.150E+02	0.123E+01	85	0.731E+00	0.150E+02	0.122E+01	86	0.954E+00	0.150E+02	0.121E+01
87	0.122E+01	0.150E+02	0.120E+01	88	0.150E+01	0.150E+02	0.118E+01	89	0.186E+01	0.150E+02	0.117E+01
90	0.226E+01	0.150E+02	0.113E+01	91	0.267E+01	0.150E+02	0.113E+01	92	0.318E+01	0.150E+02	0.110E+01
93	0.373E+01	0.150E+02	0.107E+01	94	0.430E+01	0.150E+02	0.103E+01	95	0.464E+01	0.150E+02	0.101E+01
96	0.490E+01	0.150E+02	0.991E+00	97	0.514E+01	0.150E+02	0.973E+00	98	0.525E+01	0.150E+02	0.965E+00
99	0.543E+01	0.150E+02	0.951E+00	100	0.561E+01	0.150E+02	0.936E+00	101	0.558E+01	0.150E+02	0.938E+00
102	0.[illegible]50E+01	0.150E+02	0.93[illegible]E+00	103	0.560E+01	0.150E+02	0.937E+00	104	0.544E+01	0.150E+02	0.950E+00
105	0.[illegible]22E+01	0.150E+02	0.967E+00	106	0.498E+01	0.150E+02	0.985E+00	107	0.436E+01	0.150E+02	0.103E+01
108	0.341E+01	0.150E+02	0.109E+01	109	0.244E+01	0.150E+02	0.114E+01	110	0.143E+01	0.150E+02	0.119E+01
111	0.719E+00	0.150E+02	0.122E+01	112	0.346E+00	0.150E+02	0.123E+01	113	0.186E+00	0.150E+02	0.124E+01
114	0.124E+00	0.150E+02	0.124E+01	115	0.124E+00	0.150E+02	0.124E+01	116	0.106E+00	0.150E+02	0.124E+01
117	0.106E+00	0.150E+02	0.124E+01	118	0.996E-01	0.150E+02	0.124E+01	119	0.996E-01	0.150E+02	0.124E+01
120	0.106E+00	0.150E+02	0.124E+01	121	0.106E+00	0.150E+02	0.124E+01	122	0.118E+00	0.150E+02	0.124E+01
123	0.137E+00	0.150E+02	0.124E+01	124	0.149E+00	0.150E+02	0.124E+01	125	0.198E+00	0.150E+02	0.124E+01
126	0.394E+00	0.150E+02	0.123E+01	127	0.455E+00	0.150E+02	0.123E+01	128	0.754E+00	0.150E+02	0.122E+01
129	0.121E+01	0.150E+02	0.120E+01	130	0.217E+01	0.150E+02	0.115E+01	131	0.369E+01	0.150E+02	0.107E+01
132	0.490E+01	0.150E+02	0.991E+00	133	0.544E+01	0.150E+02	0.950E+00	134	0.582E+01	0.150E+02	0.918E+00
135	0.611E+01	0.150E+02	0.891E+00	136	0.631E+01	0.150E+02	0.870E+00	137	0.623E+01	0.150E+02	0.879E+00
138	0.594E+01	0.150E+02	0.908E+00	139	0.554E+01	0.150E+02	0.942E+00	140	0.526E+01	0.150E+02	0.964E+00
141	0.484E+01	0.150E+02	0.995E+00	142	0.521E+01	0.150E+02	0.968E+00	143	0.501E+01	0.150E+02	0.983E+00
144	0.418E+01	0.150E+02	0.104E+01	145	0.359E+01	0.150E+02	0.107E+01	146	0.312E+01	0.150E+02	0.110E+01
147	0.247E+01	0.150E+02	0.114E+01	148	0.212E+01	0.150E+02	0.115E+01	149	0.178E+01	0.150E+02	0.117E+01
150	0.139E+01	0.150E+02	0.119E+01	151	0.113E+01	0.150E+02	0.120E+01	152	0.931E+00	0.150E+02	0.121E+01
153	0.683E+00	0.150E+02	0.122E+01	154	0.503E+00	0.150E+02	0.123E+01	155	0.370E+00	0.150E+02	0.123E+01
156	0.260E+00	0.150E+02	0.124E+01	157	0.174E+00	0.150E+02	0.124E+01	158	0.112E+00	0.150E+02	0.124E+01
159	0.685E-01	0.150E+02	0.125E+01	160	0.412E-01	0.150E+02	0.125E+01	161	0.412E-01	0.150E+02	0.125E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1249D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.3480D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 11. ADJUSTED FAST FISSION YIELDS FOR 241PU.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
75	0.108E-03	0.150E+02	0.108E+01	76	0.323E-03	0.150E+02	0.108E+01	77	0.108E-01	0.150E+02	0.108E+01
78	0.204E-01	0.150E+02	0.108E+01	79	0.398E-01	0.150E+02	0.108E+01	80	0.720E-01	0.150E+02	0.107E+01
81	0.118E+00	0.150E+02	0.107E+01	82	0.182E+00	0.150E+02	0.107E+01	83	0.268E+00	0.150E+02	0.107E+01
84	0.396E+00	0.150E+02	0.107E+01	85	0.544E+00	0.150E+02	0.107E+01	86	0.714E+00	0.150E+02	0.107E+01
87	0.934E+00	0.150E+02	0.106E+01	88	0.120E+01	0.150E+02	0.106E+01	89	0.145E+01	0.150E+02	0.105E+01
90	0.184E+01	0.150E+02	0.105E+01	91	0.221E+01	0.150E+02	0.104E+01	92	0.265E+01	0.150E+02	0.104E+01
93	0.322E+01	0.150E+02	0.103E+01	94	0.380E+01	0.150E+02	0.102E+01	95	0.450E+01	0.150E+02	0.100E+01
96	0.470E+01	0.150E+02	0.100E+01	97	0.508E+01	0.150E+02	0.995E+00	98	0.535E+01	0.150E+02	0.990E+00
99	0.542E+01	0.150E+02	0.989E+00	100	0.582E+01	0.150E+02	0.982E+00	101	0.589E+01	0.150E+02	0.981E+00
102	0.581E+01	0.150E+02	0.982E+00	103	0.588E+01	0.150E+02	0.981E+00	104	0.576E+01	0.150E+02	0.983E+00
105	0.555E+01	0.150E+02	0.987E+00	106	0.520E+01	0.150E+02	0.993E+00	107	0.490E+01	0.150E+02	0.998E+00
108	0.378E+01	0.150E+02	0.102E+01	109	0.287E+01	0.150E+02	0.103E+01	110	0.178E+01	0.150E+02	0.105E+01
111	0.935E+00	0.150E+02	0.106E+01	112	0.449E+00	0.150E+02	0.107E+01	113	0.236E+00	0.150E+02	0.107E+01
114	0.107E+00	0.150E+02	0.107E+01	115	0.118E+00	0.150E+02	0.107E+01	116	0.107E+00	0.150E+02	0.107E+01
117	0.967E-01	0.150E+02	0.107E+01	118	0.924E-01	0.150E+02	0.107E+01	119	0.913E-01	0.150E+02	0.107E+01
120	0.913E-01	0.150E+02	0.107E+01	121	0.967E-01	0.150E+02	0.107E+01	122	0.999E-01	0.150E+02	0.107E+01
123	0.107E+00	0.150E+02	0.107E+01	124	0.118E+00	0.150E+02	0.107E+01	125	0.118E+00	0.150E+02	0.107E+01
126	0.237E+00	0.150E+02	0.107E+01	127	0.343E+00	0.150E+02	0.107E+01	128	0.555E+00	0.150E+02	0.107E+01
129	0.903E+00	0.150E+02	0.106E+01	130	0.161E+01	0.150E+02	0.105E+01	131	0.294E+01	0.150E+02	0.103E+01
132	0.490E+01	0.150E+02	0.100E+01	133	0.547E+01	0.150E+02	0.988E+00	134	0.597E+01	0.150E+02	0.979E+00
135	0.651E+01	0.150E+02	0.970E+00	136	0.686E+01	0.150E+02	0.963E+00	137	0.696E+01	0.150E+02	0.961E+00
138	0.652E+01	0.150E+02	0.969E+00	139	0.597E+01	0.150E+02	0.979E+00	140	0.548E+01	0.150E+02	0.988E+00
141	0.508E+01	0.150E+02	0.995E+00	142	0.498E+01	0.150E+02	0.997E+00	143	0.540E+01	0.150E+02	0.989E+00
144	0.438E+01	0.150E+02	0.101E+01	145	0.359E+01	0.150E+02	0.102E+01	146	0.309E+01	0.150E+02	0.103E+01
147	0.231E+01	0.150E+02	0.104E+01	148	0.203E+01	0.150E+02	0.104E+01	149	0.171E+01	0.150E+02	0.105E+01
150	0.137E+01	0.150E+02	0.106E+01	151	0.106E+01	0.150E+02	0.106E+01	152	0.892E+00	0.150E+02	0.106E+01
153	0.671E+00	0.150E+02	0.107E+01	154	0.481E+00	0.150E+02	0.107E+01	155	0.353E+00	0.150E+02	0.107E+01
156	0.257E+00	0.150E+02	0.107E+01	157	0.172E+00	0.150E+02	0.107E+01	158	0.118E+00	0.150E+02	0.107E+01
159	0.488E-01	0.150E+02	0.107E+01	160	0.419E-01	0.150E+02	0.107E+01	161	0.247E-01	0.150E+02	0.108E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1076D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.1052D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 12. ADJUSTED 14MEV FISSION YIELDS FOR 233U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.193E-01	0.100E+02	0.125E+01	73	0.300E-01	0.150E+02	0.125E+01	74	0.450E-01	0.150E+02	0.125E+01
75	0.795E-01	0.150E+02	0.125E+01	76	0.112E+00	0.150E+02	0.125E+01	77	0.155E+00	0.150E+02	0.124E+01
78	0.247E+00	0.150E+02	0.123E+01	79	0.344E+00	0.150E+02	0.123E+01	80	0.510E+00	0.150E+02	0.121E+01
81	0.764E+00	0.150E+02	0.119E+01	82	0.114E+01	0.150E+02	0.116E+01	83	0.160E+01	0.600E+01	0.120E+01
84	0.240E+01	0.500E+01	0.119E+01	85	0.254E+01	0.150E+02	0.102E+01	86	0.288E+01	0.150E+02	0.975E+00
87	0.323E+01	0.150E+02	0.923E+00	88	0.360E+01	0.150E+02	0.857E+00	89	0.455E+01	0.100E+02	0.950E+00
90	0.397E+01	0.150E+02	0.763E+00	91	0.586E+01	0.500E+01	0.108E+01	92	0.573E+01	0.700E+01	0.100E+01
93	0.526E+01	0.100E+02	0.876E+00	94	0.411E+01	0.150E+02	0.697E+00	95	0.603E+01	0.500E+01	0.108E+01
96	0.402E+01	0.150E+02	0.744E+00	97	0.550E+01	0.600E+01	0.106E+01	98	0.369E+01	0.150E+02	0.839E+00
99	0.420E+01	0.500E+01	0.114E+01	100	0.305E+01	0.150E+02	0.952E+00	101	0.284E+01	0.150E+02	0.980E+00
102	0.252E+01	0.150E+02	0.101E+01	103	0.246E+01	0.130E+02	0.106E+01	104	0.217E+01	0.150E+02	0.106E+01
105	0.202E+01	0.150E+02	0.108E+01	106	0.172E+01	0.130E+02	0.113E+01	107	0.181E+01	0.150E+02	0.110E+01
108	0.157E+01	0.150E+02	0.112E+01	109	0.141E+01	0.100E+02	0.118E+01	110	0.147E+01	0.150E+02	0.113E+01
111	0.144E+01	0.150E+02	0.113E+01	112	0.160E+01	0.170E+02	0.110E+01	113	0.124E+01	0.120E+02	0.117E+01
114	0.119E+01	0.150E+02	0.116E+01	115	0.155E+01	0.500E+01	0.118E+01	116	0.116E+01	0.150E+02	0.116E+01
117	0.116E+01	0.150E+02	0.116E+01	118	0.118E+01	0.150E+02	0.116E+01	119	0.121E+01	0.150E+02	0.115E+01
120	0.123E+01	0.150E+02	0.115E+01	121	0.126E+01	0.100E+02	0.119E+01	122	0.132E+01	0.150E+02	0.115E+01
123	0.142E+01	0.150E+02	0.114E+01	124	0.155E+01	0.150E+02	0.112E+01	125	0.175E+01	0.100E+02	0.116E+01
126	0.192E+01	0.150E+02	0.109E+01	127	0.230E+01	0.120E+02	0.110E+01	128	0.247E+01	0.150E+02	0.103E+01
129	0.270E+01	0.150E+02	0.999E+00	130	0.295E+01	0.150E+02	0.966E+00	131	0.354E+01	0.100E+02	0.104E+01
132	0.424E+01	0.600E+01	0.111E+01	133	0.464E+01	0.700E+01	0.106E+01	134	0.515E+01	0.500E+01	0.111E+01
135	0.513E+01	0.700E+01	0.104E+01	136	0.386E+01	0.150E+02	0.796E+00	137	0.450E+01	0.100E+02	0.958E+00
138	0.397E+01	0.150E+02	0.763E+00	139	0.620E+01	0.500E+01	0.107E+01	140	0.488E+01	0.500E+01	0.112E+01
141	0.492E+01	0.700E+01	0.105E+01	142	0.348E+01	0.150E+02	0.881E+00	143	0.402E+01	0.600E+01	0.112E+01
144	0.266E+01	0.120E+02	0.106E+01	145	0.204E+01	0.150E+02	0.107E+01	146	0.167E+01	0.150E+02	0.111E+01
147	0.154E+01	0.700E+01	0.120E+01	148	0.106E+01	0.150E+02	0.117E+01	149	0.741E+00	0.150E+02	0.120E+01
150	0.522E+00	0.150E+02	0.121E+01	151	0.238E+00	0.150E+02	0.122E+01	152	0.271E+00	0.150E+02	0.123E+01
153	0.183E+01	0.800E+01	0.118E+01	154	0.124E+00	0.150E+02	0.124E+01	155	0.823E-01	0.150E+02	0.125E+01
156	0.525E-01	0.150E+02	0.125E+01	157	0.350E-01	0.150E+02	0.125E+01	158	0.238E-01	0.150E+02	0.125E+01
159	0.145E-01	0.100E+02	0.125E+01	160	0.100E-01	0.150E+02	0.125E+01	161	0.627E-02	0.600E+01	0.125E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1254D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.6290D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 13. ADJUSTED 14MEV FISSION YIELDS FOR 235U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.649E-02	0.800E+01	0.968E+00	73	0.823E-02	0.150E+02	0.969E+00	74	0.165E-01	0.150E+02	0.969E+00
75	0.262E-01	0.150E+02	0.969E+00	76	0.417E-01	0.150E+02	0.969E+00	77	0.669E-01	0.150E+02	0.969E+00
78	0.998E-01	0.150E+02	0.969E+00	79	0.165E+00	0.150E+02	0.969E+00	80	0.247E+00	0.150E+02	0.970E+00
81	0.351E+00	0.150E+02	0.970E+00	82	0.603E+00	0.150E+02	0.972E+00	83	0.944E+00	0.120E+02	0.973E+00
84	0.102E+01	0.150E+02	0.974E+00	85	0.147E+01	0.150E+02	0.977E+00	86	0.196E+01	0.150E+02	0.980E+00
87	0.266E+01	0.150E+02	0.983E+00	88	0.346E+01	0.150E+02	0.988E+00	89	0.421E+01	0.500E+01	0.976E+00
90	0.423E+01	0.100E+02	0.985E+00	91	0.489E+01	0.700E+01	0.981E+00	92	0.519E+01	0.150E+02	0.997E+00
93	0.534E+01	0.100E+02	0.988E+00	94	0.498E+01	0.150E+02	0.956E+00	95	0.464E+01	0.900E+01	0.984E+00
96	0.498E+01	0.150E+02	0.996E+00	97	0.518E+01	0.100E+02	0.988E+00	98	0.529E+01	0.150E+02	0.998E+00
99	0.518E+01	0.600E+01	0.980E+00	100	0.457E+01	0.150E+02	0.954E+00	101	0.411E+01	0.150E+02	0.991E+00
102	0.364E+01	0.150E+02	0.989E+00	103	0.332E+01	0.700E+01	0.977E+00	104	0.266E+01	0.150E+02	0.983E+00
105	0.208E+01	0.150E+02	0.980E+00	106	0.171E+01	0.150E+02	0.978E+00	107	0.156E+01	0.150E+02	0.977E+00
108	0.137E+01	0.150E+02	0.976E+00	109	0.143E+01	0.100E+02	0.974E+00	110	0.117E+01	0.150E+02	0.975E+00
111	0.107E+01	0.500E+01	0.971E+00	112	0.106E+01	0.150E+02	0.975E+00	113	0.896E+00	0.110E+02	0.972E+00
114	0.105E+01	0.150E+02	0.974E+00	115	0.109E+01	0.150E+02	0.975E+00	116	0.102E+01	0.150E+02	0.974E+00
117	0.101E+01	0.150E+02	0.974E+00	118	0.101E+01	0.150E+02	0.974E+00	119	0.100E+01	0.150E+02	0.974E+00
120	0.994E+00	0.150E+02	0.974E+00	121	0.100E+01	0.150E+02	0.974E+00	122	0.120E+01	0.150E+02	0.975E+00
123	0.139E+01	0.150E+02	0.976E+00	124	0.162E+01	0.150E+02	0.978E+00	125	0.186E+01	0.100E+02	0.976E+00
126	0.218E+01	0.150E+02	0.981E+00	127	0.246E+01	0.150E+02	0.982E+00	128	0.281E+01	0.150E+02	0.984E+00
129	0.318E+01	0.150E+02	0.986E+00	130	0.366E+01	0.150E+02	0.989E+00	131	0.408E+01	0.400E+01	0.975E+00
132	0.427E+01	0.600E+01	0.978E+00	133	0.550E+01	0.100E+02	0.989E+00	134	0.508E+01	0.100E+02	0.987E+00
135	0.448E+01	0.100E+02	0.985E+00	136	0.498E+01	0.150E+02	0.996E+00	137	0.584E+01	0.100E+02	0.990E+00
138	0.529E+01	0.150E+02	0.998E+00	139	0.476E+01	0.100E+02	0.986E+00	140	0.437E+01	0.500E+01	0.977E+00
141	0.373E+01	0.100E+02	0.982E+00	142	0.376E+01	0.150E+02	0.990E+00	143	0.379E+01	0.700E+01	0.978E+00
144	0.302E+01	0.700E+01	0.976E+00	145	0.251E+01	0.150E+02	0.983E+00	146	0.206E+01	0.150E+02	0.980E+00
147	0.161E+01	0.700E+01	0.973E+00	148	0.117E+01	0.150E+02	0.975E+00	149	0.808E+00	0.150E+02	0.973E+00
150	0.534E+00	0.150E+02	0.972E+00	151	0.388E+00	0.150E+02	0.971E+00	152	0.272E+00	0.150E+02	0.970E+00
153	0.109E+00	0.150E+02	0.970E+00	154	0.136E-01	0.150E+02	0.969E+00	155	0.827E+00	0.150E+02	0.973E+00
156	0.601E-01	0.700E+01	0.969E+00	157	0.349E-01	0.150E+02	0.969E+00	158	0.213E-01	0.150E+02	0.969E+00
159	0.123E-01	0.100E+02	0.969E+00	160	0.717E-02	0.150E+02	0.969E+00	161	0.454E-02	0.100E+02	0.968E+00

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.9685D+00 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = 0.3651D+01 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 14. ADJUSTED 14MEV FISSION YIELDS FOR 238U.

MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR	MASS	CHAIN YIELD	COEFF. OF VAR.	FACTOR
72	0.332E-02	0.130E+02	0.111E+01	73	0.553E-02	0.170E+02	0.111E+01	74	0.963E-02	0.150E+02	0.111E+01
75	0.144E-01	0.150E+02	0.111E+01	76	0.232E-01	0.150E+02	0.111E+01	77	0.332E-01	0.800E+01	0.111E+01
78	0.452E-01	0.110E+02	0.111E+01	79	0.205E+00	0.170E+02	0.110E+01	80	0.371E+00	0.150E+02	0.109E+01
81	0.468E+00	0.150E+02	0.109E+01	82	0.607E+00	0.150E+02	0.108E+01	83	0.792E+00	0.500E+01	0.110E+01
84	0.145E+01	0.300E+01	0.110E+01	85	0.122E+01	0.500E+01	0.109E+01	86	0.190E+01	0.600E+01	0.108E+01
87	0.204E+01	0.150E+02	0.102E+01	88	0.232E+01	0.150E+02	0.101E+01	89	0.284E+01	0.700E+01	0.105E+01
90	0.335E+01	0.400E+01	0.107E+01	91	0.331E+01	0.600E+01	0.105E+01	92	0.359E+01	0.150E+02	0.945E+00
93	0.439E+01	0.400E+01	0.106E+01	94	0.426E+01	0.150E+02	0.907E+00	95	0.516E+01	0.900E+01	0.971E+00
96	0.477E+01	0.150E+02	0.975E+00	97	0.574E+01	0.400E+01	0.104E+01	98	0.499E+01	0.150E+02	0.860E+00
99	0.605E+01	0.400E+01	0.104E+01	100	0.511E+01	0.150E+02	0.852E+00	101	0.625E+01	0.400E+01	0.104E+01
102	0.363E+01	0.800E+01	0.103E+01	103	0.407E+01	0.110E+02	0.977E+00	104	0.319E+01	0.150E+02	0.967E+00
105	0.279E+01	0.900E+01	0.104E+01	106	0.244E+01	0.130E+02	0.102E+01	107	0.188E+01	0.100E+02	0.106E+01
108	0.176E+01	0.150E+02	0.103E+01	109	0.162E+01	0.900E+01	0.107E+01	110	0.132E+01	0.150E+02	0.105E+01
111	0.100E+01	0.600E+01	0.109E+01	112	0.106E+01	0.130E+02	0.107E+01	113	0.969E-01	0.700E+01	0.111E+01
114	0.858E+00	0.150E+02	0.107E+01	115	0.809E+00	0.700E+01	0.109E+01	116	0.764E+00	0.150E+02	0.108E+01
117	0.754E+00	0.150E+02	0.108E+01	118	0.754E+00	0.150E+02	0.108E+01	119	0.764E+00	0.150E+02	0.108E+01
120	0.796E+00	0.150E+02	0.108E+01	121	0.105E+01	0.700E+01	0.109E+01	122	0.900E+00	0.150E+02	0.107E+01
123	0.982E+00	0.150E+02	0.107E+01	124	0.108E+01	0.150E+02	0.106E+01	125	0.117E+01	0.150E+02	0.106E+01
126	0.132E+01	0.150E+02	0.105E+01	127	0.154E+01	0.600E+01	0.108E+01	128	0.190E+01	0.150E+02	0.103E+01
129	0.134E+01	0.130E+02	0.106E+01	130	0.298E+01	0.150E+02	0.977E+00	131	0.395E+01	0.700E+01	0.103E+01
132	0.493E+01	0.400E+01	0.105E+01	133	0.663E+01	0.500E+01	0.101E+01	134	0.674E+01	0.400E+01	0.103E+01
135	0.580E+01	0.500E+01	0.103E+01	136	0.579E+01	0.500E+01	0.103E+01	137	0.569E+01	0.800E+01	0.975E+00
138	0.446E+01	0.120E+02	0.947E+00	139	0.504E+01	0.700E+01	0.101E+01	140	0.498E+01	0.300E+01	0.107E+01
141	0.464E+01	0.100E+02	0.972E+00	142	0.397E+01	0.150E+02	0.924E+00	143	0.392E+01	0.500E+01	0.105E+01
144	0.326E+01	0.100E+02	0.102E+01	145	0.338E+01	0.500E+01	0.106E+01	146	0.250E+01	0.150E+02	0.100E+01
147	0.227E+01	0.400E+01	0.108E+01	148	0.156E+01	0.150E+02	0.104E+01	149	0.122E+01	0.150E+02	0.106E+01
150	0.920E+00	0.150E+02	0.107E+01	151	0.712E+00	0.150E+02	0.108E+01	152	0.543E+00	0.150E+02	0.109E+01
153	0.440E+00	0.500E+01	0.110E+01	154	0.274E+00	0.150E+02	0.110E+01	155	0.176E+00	0.150E+02	0.110E+01
156	0.121E+00	0.900E+01	0.110E+01	157	0.775E-02	0.150E+02	0.111E+01	158	0.464E-01	0.150E+02	0.111E+01
159	0.288E-01	0.120E+02	0.111E+01	160	0.166E-01	0.150E+02	0.111E+01	161	0.915E-02	0.500E+01	0.111E+01

SUM OF YIELDS = 0.2000E+03
ALPHA = 0.1107D+01 SEE TEXT EQUATIONS 6,7 AND 8.
BETA = -0.2832D+02 SEE TEXT EQUATIONS 6,7 AND 8.

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION.

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
72	26	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0001
	27	0.0	0.0083	0.0101	0.0	0.0056	0.0	0.0171
	28	0.0	0.3365	0.3335	0.0	0.2624	0.0	0.3093
	29	0.0	0.4558	0.4832	0.0	0.4876	0.0	0.5620
	30	0.0	0.1962	0.1699	0.0	0.2398	0.0	0.1099
	31	0.0	0.0027	0.0025	0.0	0.0046	0.0	0.0020
	32	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
73	26	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0000
	27	0.0	0.0012	0.0015	0.0	0.0007	0.0	0.0031
	28	0.0	0.1287	0.1322	0.0	0.0873	0.0	0.1400
	29	0.0	0.4207	0.4616	0.0	0.4036	0.0	0.5829
	30	0.0	0.4335	0.3891	0.0	0.4837	0.0	0.2626
	31	0.0	0.0154	0.0147	0.0	0.0244	0.0	0.0117
	32	0.0	0.0001	0.0001	0.0	0.0003	0.0	0.0000
	33	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
74	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	27	0.0	0.0001	0.0002	0.0	0.0001	0.0	0.0004
	28	0.0	0.0312	0.0349	0.0	0.0201	0.0	0.0427
	29	0.0	0.2599	0.3024	0.0	0.2331	0.0	0.4372
	30	0.0	0.6482	0.6036	0.0	0.6615	0.0	0.4671
	31	0.0	0.0588	0.0571	0.0	0.0829	0.0	0.0525
	32	0.0	0.0014	0.0011	0.0	0.0023	0.0	0.0005
	33	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
75	27	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
	28	0.0	0.0056	0.0065	0.0	0.0033	0.0	0.0090
	29	0.0	0.1191	0.1438	0.0	0.0996	0.0	0.2331
	30	0.0	0.7092	0.6839	0.0	0.6777	0.0	0.5914
	31	0.0	0.1560	0.1573	0.0	0.2044	0.0	0.1627
	32	0.0	0.0098	0.0079	0.0	0.0149	0.0	0.0042
	33	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
76	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	28	0.0	0.0007	0.0009	0.0	0.0004	0.0	0.0013
	29	0.0	0.0410	0.0506	0.0	0.0313	0.0	0.0899
	30	0.0	0.5963	0.5862	0.0	0.5242	0.0	0.5395
	31	0.0	0.3117	0.3208	0.0	0.3748	0.0	0.3468
	32	0.0	0.0497	0.0407	0.0	0.0689	0.0	0.0226
	33	0.0	0.0002	0.0002	0.0	0.0005	0.0	0.0001
	34	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
77	28	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0001
	29	0.	0.0035	0.0120	0.0	0.0064	0.0	0.0226
	30	0.0	0.2276	0.3581	0.0	0.2798	0.0	0.3468
	31	0.0	0.4619	0.4747	0.0	0.4862	0.0	0.5395
	32	0.0	0.3050	0.1524	0.0	0.2235	0.0	0.0899
	33	0.0	0.0057	0.0030	0.0	0.0040	0.0	0.0013
	34	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
78	28	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	29	0.0	0.0004	0.0017	0.0	0.0007	0.0	0.0036
	30	0.0	0.0643	0.1325	0.0	0.0902	0.0	0.1511
	31	0.0	0.3417	0.4527	0.0	0.4075	0.0	0.5877
	32	0.0	0.5602	0.3957	0.0	0.4777	0.0	0.2477
	33	0.0	0.0327	0.0166	0.0	0.0236	0.0	0.0102
	34	0.0	0.0005	0.0001	0.0	0.0002	0.0	0.0000
	35	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
79	27	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	28	0.0	0.0	0.0020	0.0	0.0	0.0	0.0
	29	0.0	0.0000	0.0172	0.0	0.0000	0.0	0.0003
	30	0.0	0.0107	0.1440	0.0	0.0177	0.0	0.0412
	31	0.0	0.1628	0.2410	0.0	0.2206	0.0	0.4321
	32	0.0	0.7075	0.4069	0.0	0.6692	0.0	0.4719
	33	0.0	0.1136	0.1378	0.0	0.0898	0.0	0.0543
	34	0.0	0.0050	0.0470	0.0	0.0027	0.0	0.0005
	35	0.0	0.0000	0.0032	0.0	0.0000	0.0	0.0000
	36	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
80	29	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
	30	0.0	0.0016	0.0059	0.0	0.0028	0.0	0.0086
	31	0.0	0.0623	0.1373	0.0	0.0921	0.0	0.2283
	32	0.0	0.6555	0.6831	0.0	0.6715	0.0	0.5924
	33	0.0	0.2514	0.1643	0.0	0.2165	0.0	0.1667
	34	0.0	0.0288	0.0086	0.0	0.0170	0.0	0.0044
	35	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
	36	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
81	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	30	0.0	0.0001	0.0007	0.0	0.0003	0.0	0.0011
	31	0.0	0.0160	0.0446	0.0	0.0263	0.0	0.0822
	32	0.0	0.4400	0.5673	0.0	0.4955	0.0	0.5284
	33	0.0	0.4176	0.3391	0.0	0.3956	0.0	0.3630
	34	0.0	0.1248	0.0477	0.0	0.0817	0.0	0.0254
	35	0.0	0.0011	0.0003	0.0	0.0006	0.0	0.0001
	36	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
82	30	0.0	0.0	0.0001	0.0	0.0003	0.0	0.0001
	31	0.0	0.0006	0.0101	0.0	0.0137	0.0	0.0193
	32	0.0	0.1486	0.3335	0.0	0.2788	0.0	0.3253
	33	0.0	0.5296	0.4832	0.0	0.4146	0.0	0.5530
	34	0.0	0.3180	0.1699	0.0	0.2788	0.0	0.1010
	35	0.0	0.0029	0.0025	0.0	0.0137	0.0	0.0017
	36	0.0	0.0000	0.0000	0.0	0.0003	0.0	0.0000
	37	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
83	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	31	0.0	0.0002	0.0000	0.0	0.0006	0.0	0.0031
	32	0.0	0.0516	0.0613	0.0	0.0790	0.0	0.1400
	33	0.0	0.3160	0.5679	0.0	0.3915	0.0	0.5829
	34	0.0	0.5914	0.3677	0.0	0.5013	0.0	0.2626
	35	0.0	0.0037	0.0023	0.0	0.0272	0.0	0.0117
	36	0.0	0.0007	0.0000	0.0	0.0003	0.0	0.0000
	37	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
84	30	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	31	0.0	0.0000	0.0025	0.0	0.0000	0.0	0.0003
	32	0.0	0.0093	0.0876	0.0	0.0155	0.0	0.0398
	33	0.0	0.1527	0.2962	0.0	0.2084	0.0	0.4269
	34	0.0	0.7098	0.5137	0.0	0.6758	0.0	0.4767
	35	0.0	0.1220	0.0912	0.0	0.0971	0.0	0.0561
	36	0.0	0.0058	0.0080	0.0	0.0031	0.0	0.0006
	37	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
[illegible]	31	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	32	0.0	0.0011	0.0049	0.0	0.0022	0.0	0.0075
	33	0.0	0.0923	0.1249	0.0	0.0806	0.0	0.2142
	34	0.0	0.6324	0.6802	0.0	0.6588	0.0	0.5945
	35	0.0	0.2770	0.1790	0.0	0.2374	0.0	0.1790
	36	0.0	0.0346	0.0103	0.0	0.0210	0.0	0.0051
	37	0.0	0.0001	0.0000	0.0	0.0001	0.0	0.0000
	38	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
86	31	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	32	0.0	0.0001	0.0033	0.0	0.0002	0.0	0.0009
	33	0.0	0.0121	0.0638	0.0	0.0211	0.0	0.0726
	34	0.0	0.3947	0.5004	0.0	0.4595	0.0	0.5124
	35	0.0	0.4375	0.3341	0.0	0.4189	0.0	0.3845
	36	0.0	0.1535	0.0955	0.0	0.0994	0.0	0.0296
	37	0.0	0.0017	0.0022	0.0	0.0009	0.0	0.0002
	38	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
87	31	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	32	0.0	0.0000	0.0009	0.0	0.0000	0.0	0.0001
	33	0.0	0.0016	0.0380	0.0	0.0038	0.0	0.0151
	34	0.0	0.1492	0.4741	0.0	0.1182	0.0	0.2935
	35	0.0	0.4550	0.3826	0.0	0.4855	0.0	0.5700
	36	0.0	0.4012	0.1020	0.0	0.2857	0.0	0.1194
	37	0.0	0.0126	0.0016	0.0	0.0067	0.0	0.0023
	38	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
88	30	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	31	0.0	0.0	0.0005	0.0	0.0	0.0	0.0
	32	0.0	0.0	0.0097	0.0	0.0	0.0	0.0000
	33	0.0	0.0001	0.0422	0.0	0.0003	0.0	0.0020
	34	0.0	0.0300	0.2131	0.0	0.0557	0.0	0.1099
	35	0.0	0.2557	0.2483	0.0	0.3486	0.0	0.5620
	36	0.0	0.6519	0.3372	0.0	0.5566	0.0	0.3093
	37	0.0	0.0605	0.1059	0.0	0.0382	0.0	0.0171
	38	0.0	0.0015	0.0387	0.0	0.0006	0.0	0.0001
	39	0.0	0.0000	0.0032	0.0	0.0000	0.0	0.0
	40	0.0	0.0	0.0003	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
89	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	33	0.0	0.0	0.0	0.0	0.0000	0.0	0.0002
	34	0.0	0.0001	0.0025	0.0	0.0046	0.0	0.0296
	35	0.0	0.0517	0.2316	0.0	0.1532	0.0	0.3845
	36	0.0	0.8608	0.7521	0.0	0.7347	0.0	0.5124
	37	0.0	0.0869	0.0330	0.0	0.1054	0.0	0.0726
	38	0.0	0.0002	0.0000	0.0	0.0021	0.0	0.0009
	39	0.0	0.0	0.0	0.0	0.0000	0.0	0.0000
90	33	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	34	0.0	0.0006	0.0064	0.0	0.0001	0.0	0.0054
	35	0.0	0.0385	0.1680	0.0	0.0288	0.0	0.1832
	36	0.0	0.5864	0.7098	0.0	0.7011	0.0	0.5950
	37	0.0	0.3203	0.1124	0.0	0.2626	0.0	0.2096
	38	0.0	0.0536	0.0027	0.0	0.0074	0.0	0.0071
	39	0.0	0.0003	0.0000	0.0	0.0000	0.0	0.0000
	40	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
91	33	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
	34	0.0	0.0030	0.0012	0.0	0.0000	0.0	0.0006
	35	0.0	0.0365	0.0299	0.0	0.0074	0.0	0.0599
	36	0.0	0.3547	0.3458	0.0	0.4103	0.0	0.4860
	37	0.0	0.3300	0.3901	0.0	0.4936	0.0	0.4164
	38	0.0	0.2555	0.2201	0.0	0.0884	0.0	0.0370
	39	0.0	0.0188	0.0119	0.0	0.0003	0.0	0.0003
	40	0.0	0.0011	0.0003	0.0	0.0000	0.0	0.0000
	41	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
92	34	0.0	0.0001	0.0000	0.0	0.0	0.0	0.0001
	35	0.0	0.0043	0.0067	0.0	0.0008	0.0	0.0133
	36	0.0	0.1557	0.3249	0.0	0.1466	0.0	0.2779
	37	0.0	0.3322	0.5137	0.0	0.5316	0.0	0.5770
	38	0.0	0.4489	0.1527	0.0	0.3167	0.0	0.1294
	39	0.0	0.0369	0.0014	0.0	0.0043	0.0	0.0027
	40	0.0	0.0016	0.0000	0.0	0.0000	0.0	0.0000
	41	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
93	34	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	35	0.0	0.0001	0.0007	0.0	0.0000	0.0	0.0019
	36	0.0	0.0288	0.1049	0.0	0.0238	0.0	0.1069
	37	0.0	0.2514	0.4670	0.0	0.3403	0.0	0.5591
	38	0.0	0.6555	0.4133	0.0	0.6118	0.0	0.3146
	39	0.0	0.0623	0.0133	0.0	0.0241	0.0	0.0178
	40	0.0	0.0016	0.0001	0.0	0.0001	0.0	0.0001
	41	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
94	34	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	35	0.0	0.0000	0.0008	0.0	0.0000	0.0	0.0002
	36	0.0	0.0046	0.0370	0.0	0.0091	0.0	0.0295
	37	0.0	0.1082	0.1516	0.0	0.1632	0.0	0.3792
	38	0.0	0.7054	0.5548	0.0	0.6916	0.0	0.5165
	39	0.0	0.1637	0.1814	0.0	0.1303	0.0	0.0749
	40	0.0	0.0117	0.0331	0.0	0.0057	0.0	0.0010
	41	0.0	0.0000	0.0006	0.0	0.0000	0.0	0.0000
	42	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
95	35	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0000
	36	0.0	0.0013	0.0036	0.0	0.0010	0.0	0.0051
	37	0.0	0.0531	0.1282	0.0	0.0565	0.0	0.1790
	38	0.0	0.6233	0.7135	0.0	0.6265	0.0	0.5945
	39	0.0	0.2810	0.1491	0.0	0.2855	0.0	0.2142
	40	0.0	0.0408	0.0049	0.0	0.0304	0.0	0.0075
	41	0.0	0.0002	0.0000	0.0	0.0001	0.0	0.0000
	42	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
96	35	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
	36	0.0	0.0012	0.0043	0.0	0.0000	0.0	0.0006
	37	0.0	0.0252	0.0632	0.0	0.0030	0.0	0.0580
	38	0.0	0.3432	0.4585	0.0	0.3025	0.0	0.4814
	39	0.0	0.3601	0.3392	0.0	0.5526	0.0	0.4217
	40	0.0	0.2557	0.1292	0.0	0.1413	0.0	0.0384
	41	0.0	0.0139	0.0048	0.0	0.0006	0.0	0.0003
	42	0.0	0.0005	0.0001	0.0	0.0000	0.0	0.0000
	43	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
97	36	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0001
	37	0.0	0.0002	0.0100	0.0	0.0031	0.0	0.0133
	38	0.0	0.0821	0.3441	0.0	0.1815	0.0	0.2779
	39	0.0	0.4568	0.4863	0.0	0.4595	0.0	0.5770
	40	0.0	0.4523	0.1568	0.0	0.3438	0.0	0.1294
	41	0.0	0.0082	0.0019	0.0	0.0119	0.0	0.0027
	42	0.0	0.0000	0.0000	0.0	0.0001	0.0	0.0000
98	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	37	0.0	0.0001	0.0008	0.0	0.0003	0.0	0.0021
	38	0.0	0.0288	0.0915	0.0	0.0499	0.0	0.1130
	39	0.0	0.2514	0.4208	0.0	0.3352	0.0	0.5648
	40	0.0	0.6555	0.4627	0.0	0.5718	0.0	0.3040
	41	0.0	0.0623	0.0233	0.0	0.0421	0.0	0.0164
	42	0.0	0.0016	0.0002	0.0	0.0007	0.0	0.0001
	43	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
99	34	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0024	0.0	0.0	0.0	0.0
	37	0.0	0.0000	0.0173	0.0	0.0000	0.0	0.0002
	38	0.0	0.0050	0.1348	0.0	0.0100	0.0	0.0332
	39	0.0	0.1136	0.2237	0.0	0.1703	0.0	0.4006
	40	0.0	0.7075	0.3995	0.0	0.6902	0.0	0.4996
	41	0.0	0.1628	0.1527	0.0	0.1243	0.0	0.0661
	42	0.0	0.0107	0.0628	0.0	0.0052	0.0	0.0008
	43	0.0	0.0000	0.0055	0.0	0.0000	0.0	0.0000
	44	0.0	0.0	0.0005	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
100	37	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	38	0.0	0.0007	0.0042	0.0	0.0016	0.0	0.0071
	39	0.0	0.0410	0.1161	0.0	0.0583	0.0	0.2096
	40	0.0	0.5063	0.6768	0.0	0.6398	0.0	0.5950
	41	0.0	0.3117	0.1904	0.0	0.2633	0.0	0.1832
	42	0.0	0.0437	0.0118	0.0	0.0268	0.0	0.0054
	43	0.0	0.0002	0.0000	0.0	0.0001	0.0	0.0000
	44	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
1[illegible]1	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	38	0.0	0.0001	0.0006	0.0	0.0002	0.0	0.0011
	39	0.0	0.0107	0.0405	0.0	0.0203	0.0	0.0797
	40	0.0	0.3752	0.5523	0.0	0.4534	0.0	0.5246
	41	0.0	0.4446	0.3528	0.0	0.4226	0.0	0.3684
	42	0.0	0.1670	0.0528	0.0	0.1026	0.0	0.0264
	43	0.0	0.0020	0.0003	0.0	0.0009	0.0	0.0002
	44	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
1[illegible]2	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0001
	39	0.0	0.0018	0.0097	0.0	0.0040	0.0	0.0218
	40	0.0	0.1579	0.3274	0.0	0.2735	0.0	0.3414
	41	0.0	0.4400	0.4850	0.0	0.4862	0.0	0.5430
	42	0.0	0.3382	0.1745	0.0	0.2798	0.0	0.0926
	43	0.0	0.0116	0.0026	0.0	0.0064	0.0	0.0014
	44	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
1[illegible]3	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	39	0.0	0.0002	0.0	0.0	0.0005	0.0	0.0040
	40	0.0	0.0444	0.0284	0.0	0.0738	0.0	0.1588
	41	0.0	0.2987	0.6690	0.0	0.3833	0.0	0.5903
	42	0.0	0.6105	0.3017	0.0	0.5129	0.0	0.2379
	43	0.0	0.0450	0.0002	0.0	0.0292	0.0	0.0094
	44	0.0	0.0009	0.0	0.0	0.0003	0.0	0.0000
	45	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
1[illegible]4	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0000	0.0002	0.0	0.0000	0.0	0.0005
	40	0.0	0.0089	0.0377	0.0	0.0177	0.0	0.0543
	41	0.0	0.1494	0.3116	0.0	0.2206	0.0	0.4719
	42	0.0	0.7103	0.5951	0.0	0.6692	0.0	0.4321
	43	0.0	0.1248	0.0538	0.0	0.0898	0.0	0.0412
	44	0.0	0.0061	0.0010	0.0	0.0027	0.0	0.0003
	45	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
105	39	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	40	0.0	0.0010	0.0059	0.0	0.0023	0.0	0.0102
	41	0.0	0.0493	0.1373	0.0	0.0829	0.0	0.2477
	42	0.0	0.6240	0.6831	0.0	0.6615	0.0	0.5977
	43	0.0	0.2857	0.1643	0.0	0.2331	0.0	0.1511
	44	0.0	0.0396	0.0086	0.0	0.0201	0.0	0.0036
	45	0.0	0.0002	0.0000	0.0	0.0001	0.0	0.0000
	46	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
106	38	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0005	0.0	0.0000
	40	0.0	0.0001	0.0006	0.0	0.0156	0.0	0.0011
	41	0.0	0.0107	0.0405	0.0	0.0804	0.0	0.0822
	42	0.0	0.3752	0.5523	0.0	0.3844	0.0	0.5284
	43	0.0	0.4446	0.3528	0.0	0.2895	0.0	0.3630
	44	0.0	0.1670	0.0528	0.0	0.2046	0.0	0.0254
	45	0.0	0.0020	0.0003	0.0	0.0227	0.0	0.0001
	46	0.0	0.0000	0.0000	0.0	0.0023	0.0	0.0000
	47	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
107	40	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0001
	41	0.0	0.0012	0.0078	0.0	0.0036	0.0	0.0178
	42	0.0	0.1237	0.2973	0.0	0.2130	0.0	0.3146
	43	0.0	0.4207	0.4924	0.0	0.4846	0.0	0.5591
	44	0.0	0.4335	0.1984	0.0	0.2917	0.0	0.1069
	45	0.0	0.0154	0.0034	0.0	0.0070	0.0	0.0019
	46	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
	47	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
109	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0000	0.0002	0.0	0.0003	0.0	0.0006
	42	0.0	0.0083	0.0377	0.0	0.0518	0.0	0.0561
	43	0.0	0.1462	0.3116	0.0	0.3397	0.0	0.4767
	44	0.0	0.7108	0.5951	0.0	0.5668	0.0	0.4269
	45	0.0	0.1277	0.0538	0.0	0.0408	0.0	0.0398
	46	0.0	0.0064	0.0010	0.0	0.0006	0.0	0.0003
	47	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
	41	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	42	0.0	0.0037	0.0049	0.0	0.0017	0.0	0.0084
	43	0.0	0.0410	0.1249	0.0	0.0702	0.0	0.2283
	44	0.0	0.5303	0.6802	0.0	0.6433	0.0	0.5924
	45	0.0	0.3117	0.1790	0.0	0.2589	0.0	0.1667
	46	0.0	0.0437	0.0103	0.0	0.0258	0.0	0.0044
	47	0.0	0.0002	0.0000	0.0	0.0001	0.0	0.0000
	48	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
110	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	42	0.0	0.0001	0.0007	0.0	0.0002	0.0	0.0014
	43	0.0	0.0137	0.0460	0.0	0.0219	0.0	0.0924
	44	0.0	0.3752	0.5721	0.0	0.4656	0.0	0.5430
	45	0.0	0.4446	0.3346	0.0	0.4152	0.0	0.3414
	46	0.0	0.1670	0.0456	0.0	0.0963	0.0	0.0218
	47	0.0	0.0003	0.0002	0.0	0.0008	0.0	0.0001
	48	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
111	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0002
	43	0.0	0.0021	0.0130	0.0	0.0051	0.0	0.0296
	44	0.0	0.1717	0.3705	0.0	0.2510	0.0	0.3845
	45	0.0	0.4468	0.4698	0.0	0.4878	0.0	0.5124
	46	0.0	0.3687	0.1441	0.0	0.2510	0.0	0.0726
	47	0.0	0.0103	0.0018	0.0	0.0051	0.0	0.0009
	48	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
112	42	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	43	0.0	0.0	0.0019	0.0	0.0009	0.0	0.0075
	44	0.0	0.0004	0.1713	0.0	0.1026	0.0	0.2142
	45	0.0	0.3692	0.5117	0.0	0.4226	0.0	0.5945
	46	0.0	0.6309	0.3080	0.0	0.4534	0.0	0.1790
	47	0.0	0.0002	0.0065	0.0	0.0203	0.0	0.0051
	48	0.0	0.0	0.0000	0.0	0.0002	0.0	0.0000
	49	0.0	0.0	0.0	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
113	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	43	0.0	0.0000	0.0004	0.0	0.0001	0.0	0.0013
	44	0.0	0.0153	0.0654	0.0	0.0303	0.0	0.0899
	45	0.0	0.1914	0.3795	0.0	0.2766	0.0	0.5395
	46	0.0	0.6962	0.5204	0.0	0.6290	0.0	0.3468
	47	0.0	0.0932	0.0331	0.0	0.0625	0.0	0.0226
	48	0.0	0.0034	0.0004	0.0	0.0014	0.0	0.0001
	49	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
114	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0002
	44	0.0	0.0009	0.0175	0.0	0.0069	0.0	0.0285
	45	0.0	0.0863	0.2269	0.0	0.1429	0.0	0.3792
	46	0.0	0.6901	0.5600	0.0	0.6931	0.0	0.5165
	47	0.0	0.2029	0.0923	0.0	0.1495	0.0	0.0749
	48	0.0	0.0174	0.0027	0.0	0.0076	0.0	0.0010
	49	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
115	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	44	0.0	0.0004	0.0	0.0	0.0010	0.0	0.0059
	45	0.0	0.0276	0.0041	0.0	0.0524	0.0	0.1918
	46	0.0	0.5321	0.9131	0.0	0.6045	0.0	0.5955
	47	0.0	0.3625	0.0821	0.0	0.3036	0.0	0.2006
	48	0.0	0.0766	0.0000	0.0	0.0383	0.0	0.0065
	49	0.0	0.0005	0.0	0.0	0.0002	0.0	0.0000
	50	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
116	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0000	0.0004	0.0	0.0001	0.0	0.0009
	45	0.0	0.0080	0.0320	0.0	0.0138	0.0	0.0704
	46	0.0	0.3302	0.5149	0.0	0.3909	0.0	0.5082
	47	0.0	0.4573	0.3838	0.0	0.4547	0.0	0.3899
	48	0.0	0.2014	0.0677	0.0	0.1389	0.0	0.0308
	49	0.0	0.0028	0.0005	0.0	0.0016	0.0	0.0002
	50	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
[illegible]	43	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	44	0.0	0.0000	0.0043	0.0	0.0000	0.0	0.0001
	45	0.0	0.0021	0.0834	0.0	0.0026	0.0	0.0178
	46	0.0	0.1717	0.5655	0.0	0.1782	0.0	0.3146
	47	0.0	0.4468	0.2698	0.0	0.4752	0.0	0.5591
	48	0.0	0.3687	0.0556	0.0	0.3344	0.0	0.1069
	49	0.0	0.0103	0.0007	0.0	0.0095	0.0	0.0019
	50	0.0	0.0001	0.0000	0.0	0.0001	0.0	0.0000
118	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0001	0.0	0.0000	0.0	0.0000
	45	0.0	0.0004	0.0111	0.0	0.0010	0.0	0.0033
	46	0.0	0.0715	0.3352	0.0	0.1059	0.0	0.1436
	47	0.0	0.3543	0.4761	0.0	0.4261	0.0	0.5846
	48	0.0	0.5435	0.1739	0.0	0.4472	0.0	0.2576
	49	0.0	0.0295	0.0028	0.0	0.0196	0.0	0.0112
	50	0.0	0.0004	0.0000	0.0	0.0002	0.0	0.0000
	51	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
119	44	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	45	0.0	0.0001	0.0009	0.0	0.0004	0.0	0.0005
	46	0.0	0.0276	0.0975	0.0	0.0599	0.0	0.0525
	47	0.0	0.2472	0.4284	0.0	0.3574	0.0	0.4671
	48	0.0	0.6589	0.4507	0.0	0.5461	0.0	0.4372
	49	0.0	0.0641	0.0216	0.0	0.0358	0.0	0.0427
	50	0.0	0.0016	0.0002	0.0	0.0005	0.0	0.0004
	51	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
120	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0000	0.0002	0.0	0.0001	0.0	0.0001
	46	0.0	0.0003	0.0392	0.0	0.0185	0.0	0.0218
	47	0.0	0.1527	0.3162	0.0	0.2248	0.0	0.3414
	48	0.0	0.7098	0.5907	0.0	0.6667	0.0	0.5430
	49	0.0	0.1220	0.0521	0.0	0.0874	0.0	0.0926
	50	0.0	0.0058	0.0009	0.0	0.0026	0.0	0.0014
	51	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
121	44	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	45	0.0	0.0000	0.0012	0.0	0.0000	0.0	0.0000
	46	0.0	0.0025	0.0497	0.0	0.0047	0.0	0.0082
	47	0.0	0.0708	0.2206	0.0	0.1185	0.0	0.2236
	48	0.0	0.6829	0.5490	0.0	0.6882	0.0	0.5932
	49	0.0	0.2146	0.1542	0.0	0.1776	0.0	0.1707
	50	0.0	0.0198	0.0241	0.0	0.0109	0.0	0.0047
	51	0.0	0.0001	0.0004	0.0	0.0000	0.0	0.0000
	52	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
122	45	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	46	0.0	0.0007	0.0042	0.0	0.0013	0.0	0.0028
	47	0.0	0.0397	0.1161	0.0	0.0608	0.0	0.1329
	48	0.0	0.5914	0.6768	0.0	0.6251	0.0	0.5791
	49	0.0	0.3160	0.1904	0.0	0.2811	0.0	0.2728
	50	0.0	0.0516	0.0118	0.0	0.0315	0.0	0.0127
	51	0.0	0.0002	0.0000	0.0	0.0001	0.0	0.0000
	52	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
123	45	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	46	0.0	0.0002	0.0012	0.0	0.0003	0.0	0.0010
	47	0.0	0.0193	0.0606	0.0	0.0282	0.0	0.0773
	48	0.0	0.4717	0.6118	0.0	0.5071	0.0	0.5206
	49	0.0	0.4008	0.2932	0.0	0.3874	0.0	0.3738
	50	0.0	0.1068	0.0323	0.0	0.0764	0.0	0.0275
	51	0.0	0.0009	0.0001	0.0	0.0005	0.0	0.0002
	52	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
124	45	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	46	0.0	0.0000	0.0065	0.0	0.0000	0.0	0.0003
	47	0.0	0.0076	0.0720	0.0	0.0091	0.0	0.0412
	48	0.0	0.3238	0.4504	0.0	0.3282	0.0	0.4321
	49	0.0	0.4586	0.3259	0.0	0.4769	0.0	0.4719
	50	0.0	0.2066	0.1376	0.0	0.1830	0.0	0.0543
	51	0.0	0.0030	0.0065	0.0	0.0027	0.0	0.0005
	52	0.0	0.0000	0.0002	0.0	0.0000	0.0	0.0000
	53	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
12	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0001
	47	0.0	0.0024	0.0125	0.0	0.0056	0.0	0.0193
	48	0.0	0.1862	0.3643	0.0	0.2624	0.0	0.3253
	49	0.0	0.4525	0.4723	0.0	0.4876	0.0	0.5530
	50	0.0	0.3434	0.1482	0.0	0.2398	0.0	0.1010
	51	0.0	0.0001	0.0019	0.0	0.0046	0.0	0.0017
	52	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
125	45	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0036	0.0	0.0000	0.0	0.0000
	47	0.0	0.0006	0.0359	0.0	0.0011	0.0	0.0075
	48	0.0	0.0849	0.2758	0.0	0.1127	0.0	0.2142
	49	0.0	0.3745	0.3281	0.0	0.4331	0.0	0.5945
	50	0.0	0.5145	0.3064	0.0	0.4348	0.0	0.1790
	51	0.0	0.0249	0.0444	0.0	0.0182	0.0	0.0051
	52	0.0	0.0003	0.0049	0.0	0.0002	0.0	0.0000
	53	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0
	54	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
127	46	0.0	0.0	0.0001	0.0	0.0	0.0	0.0000
	47	0.0	0.0001	0.0063	0.0	0.0004	0.0	0.0026
	48	0.0	0.0312	0.1598	0.0	0.0599	0.0	0.1260
	49	0.0	0.2599	0.3713	0.0	0.3574	0.0	0.5748
	50	0.0	0.6482	0.4156	0.0	0.5461	0.0	0.2831
	51	0.0	0.0588	0.0440	0.0	0.0358	0.0	0.0139
	52	0.0	0.0014	0.0021	0.0	0.0005	0.0	0.0001
	53	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
128	46	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
	47	0.0	0.0009	0.0	0.0	0.0007	0.0	0.0006
	48	0.0	0.0442	0.0	0.0	0.0446	0.0	0.0561
	49	0.0	0.1937	0.0069	0.0	0.2245	0.0	0.4767
	50	0.0	0.5760	0.7872	0.0	0.5817	0.0	0.4269
	51	0.0	0.1606	0.2050	0.0	0.1330	0.0	0.0398
	52	0.0	0.0337	0.0002	0.0	0.0154	0.0	0.0003
	53	0.0	0.0006	0.0	0.0	0.0001	0.0	0.0000
	54	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
129	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0001
	48	0.0	0.0013	0.0002	0.0	0.0035	0.0	0.0193
	9	0.0	0.0555	0.0844	0.0	0.1021	0.0	0.3253
	50	0.0	0.6405	0.8300	0.0	0.6796	0.0	0.5530
	51	0.0	0.2694	0.0844	0.0	0.2005	0.0	0.1010
	52	0.0	0.0339	0.0002	0.0	0.0143	0.0	0.0017
	53	0.0	0.0001	0.0	0.0	0.0000	0.0	0.0000
	54	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
130	47	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
	48	0.0	0.0071	0.0018	0.0	0.0016	0.0	0.0033
	49	0.0	0.0550	0.0594	0.0	0.0470	0.0	0.1436
	50	0.0	0.3923	0.5554	0.0	0.5014	0.0	0.5846
	51	0.0	0.3042	0.3236	0.0	0.3514	0.0	0.2576
	52	0.0	0.2221	0.0585	0.0	0.0969	0.0	0.0112
	53	0.0	0.0175	0.0006	0.0	0.0016	0.0	0.0000
	54	0.0	0.0013	0.0000	0.0	0.0000	0.0	0.0
	55	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
131	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0003
	49	0.0	0.0021	0.0158	0.0	0.0056	0.0	0.0398
	50	0.0	0.1717	0.4266	0.0	0.2624	0.0	0.4269
	51	0.0	0.4468	0.4537	0.0	0.4876	0.0	0.4767
	52	0.0	0.3687	0.1023	0.0	0.2398	0.0	0.0561
	53	0.0	0.0103	0.0008	0.0	0.0046	0.0	0.0006
	54	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
132	48	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	49	0.0	0.0002	0.0052	0.0	0.0006	0.0	0.0068
	50	0.0	0.0308	0.2677	0.0	0.0790	0.0	0.2051
	51	0.0	0.2305	0.5121	0.0	0.3915	0.0	0.5953
	52	0.0	0.6504	0.2111	0.0	0.5013	0.0	0.1875
	53	0.0	0.0339	0.0032	0.0	0.0272	0.0	0.0056
	54	0.0	0.0038	0.0000	0.0	0.0003	0.0	0.0000
	55	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
133	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0000	0.0	0.0002	0.0	0.0006
	50	0.0	0.0004	0.0127	0.0	0.0277	0.0	0.0599
	51	0.0	0.0709	0.3303	0.0	0.2075	0.0	0.4960
	52	0.0	0.8123	0.6366	0.0	0.6230	0.0	0.4164
	53	0.0	0.1170	0.0197	0.0	0.1307	0.0	0.0370
	54	0.0	0.0011	0.0000	0.0	0.0107	0.0	0.0003
	55	0.	0.0000	0.0	0.0	0.0001	0.0	0.0000
134	48	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0016	0.0	0.0000	0.0	0.0000
	50	0.0	0.0004	0.0437	0.0	0.0013	0.0	0.0098
	51	0.0	0.0306	0.1732	0.0	0.0608	0.0	0.2428
	52	0.0	0.5491	0.5006	0.0	0.6251	0.0	0.5891
	53	0.0	0.3601	0.2117	0.0	0.2811	0	0.1549
	54	0.0	0.0690	0.0655	0.0	0.0315	0.0	0.0038
	55	0.0	0.0004	0.0029	0.0	0.0001	0.0	0.0000
	56	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0
135	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	50	0.0	0.0000	0.0000	0.0	0.0001	0.0	0.0011
	51	0.0	0.0054	0.0088	0.0	0.0088	0.0	0.0797
	52	0.0	0.2987	0.5163	0.0	0.3121	0.0	0.5246
	53	0.0	0.4627	0.4434	0.0	0.4739	0.0	0.3684
	54	0.0	0.2281	0.0308	0.0	0.2015	0.0	0.0264
	55	0.0	0.0036	0.0000	0.0	0.0035	0.0	0.0002
	56	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0000
136	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	50	0.0	0.0	0.0000	0.0	0.0	0.0	0.0001
	51	0.0	0.0000	0.0076	0.0	0.0	0.0	0.0178
	52	0.0	0.0411	0.3564	0.0	0.0008	0.0	0.3146
	53	0.0	0.4105	0.5081	0.0	0.2267	0.0	0.5591
	54	0.0	0.5381	0.1264	0.0	0.7628	0.0	0.1069
	55	0.0	0.0099	0.0008	0.0	0.0007	0.0	0.0019
	56	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
137	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	51	0.0	0.0000	0.0000	0.0	0.0004	0.0	0.0027
	52	0.0	0.0086	0.0223	0.0	0.0493	0.0	0.1294
	53	0.0	0.1861	0.3851	0.0	0.3010	0.0	0.5770
	54	0.0	0.7327	0.5769	0.0	0.5853	0.0	0.2779
	55	0.0	0.0712	0.0149	0.0	0.0621	0.0	0.0133
	56	0.0	0.0011	0.0000	0.0	0.0019	0.0	0.0001
	57	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
139	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0003
	52	0.0	0.0	0.0022	0.0	0.0005	0.0	0.0570
	53	0.0	0.0052	0.1864	0.0	0.0915	0.0	0.4164
	54	0.0	0.8837	0.7662	0.0	0.8022	0.0	0.4860
	55	0.0	0.1108	0.0445	0.0	0.1050	0.0	0.0599
	56	0.0	0.0000	0.0001	0.0	0.0007	0.0	0.0006
	57	0.0	0.0	0.0	0.0	0.0000	0.0	0.0000
139	51	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0000
	52	0.0	0.0016	0.0033	0.0	0.0008	0.0	0.0071
	53	0.0	0.0432	0.1129	0.0	0.0478	0.0	0.2096
	54	0.0	0.5150	0.6925	0.0	0.5910	0.0	0.5950
	55	0.0	0.3350	0.1815	0.0	0.3172	0.0	0.1832
	56	0.0	0.0133	0.0090	0.0	0.0430	0.0	0.0054
	57	0.0	0.0016	0.0000	0.0	0.0002	0.0	0.0000
	58	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
140	50	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	51	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
	52	0.0	0.0000	0.0141	0.0	0.0001	0.0	0.0010
	53	0.0	0.0051	0.1099	0.0	0.0113	0.0	0.0749
	54	0.0	0.2929	0.5044	0.0	0.3594	0.0	0.5165
	55	0.0	0.4785	0.2765	0.0	0.4672	0.0	0.3792
	56	0.0	0.2203	0.0907	0.0	0.1600	0.0	0.0285
	57	0.0	0.0028	0.0034	0.0	0.0021	0.0	0.0002
	58	0.0	[illegible]	0.0001	0.0	0.0000	0.0	0.0000

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
141	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	52	0.0	0.0	0.0003	0.0	0.0	0.0	0.0001
	53	0.0	0.0003	0.0132	0.0	0.0003	0.0	0.0178
	54	0.0	0.0054	0.2318	0.0	0.1020	0.0	0.3146
	55	0.0	0.3720	0.3927	0.0	0.5226	0.0	0.5591
	56	0.0	0.5393	0.3327	0.0	0.3701	0.0	0.1069
	57	0.0	0.0225	0.0274	0.0	0.0050	0.0	0.0019
	58	0.0	0.0002	0.0011	0.0	0.0000	0.0	0.0000
	59	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
142	52	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	53	0.0	0.0000	0.0018	0.0	0.0	0.0	0.0010
	54	0.0	0.0117	0.1055	0.0	0.0003	0.0	0.0773
	55	0.0	0.1891	0.3791	0.0	0.2597	0.0	0.5206
	56	0.0	0.7145	0.4719	0.0	0.7378	0.0	0.3738
	57	0.0	0.0823	0.0399	0.0	0.0022	0.0	0.0275
	58	0.0	0.0020	0.0010	0.0	0.0	0.0	0.0002
	59	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0000
143	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	53	0.0	0.0	0.0001	0.0	0.0	0.0	0.0003
	54	0.0	0.0	0.0218	0.0	0.0000	0.0	0.0398
	55	0.0	0.0110	0.2210	0.0	0.0588	0.0	0.4269
	56	0.0	0.8567	0.6399	0.0	0.8702	0.0	0.4767
	57	0.0	0.1318	0.1112	0.0	0.0709	0.0	0.0561
	58	0.0	0.0001	0.0053	0.0	0.0001	0.0	0.0006
	59	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
144	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	54	0.0	0.0004	0.0007	0.0	0.0000	0.0	0.0078
	55	0.0	0.0255	0.0649	0.0	0.0108	0.0	0.2189
	56	0.0	0.4931	0.6884	0.0	0.6650	0.0	0.5939
	57	0.0	0.3780	0.2340	0.0	0.3182	0.0	0.1748
	58	0.0	0.1018	0.0113	0.0	0.0060	0.0	0.0049
	59	0.0	0.0010	0.0000	0.0	0.0000	0.0	0.0000
	60	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
145	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	54	0.0	0.0000	0.0000	0.0	0.0001	0.0	0.0010
	55	0.0	0.0040	0.0080	0.0	0.0113	0.0	0.0773
	56	0.0	0.2393	0.5424	0.0	0.3594	0.0	0.5206
	57	0.0	0.4640	0.4278	0.0	0.4672	0.0	0.3738
	58	0.0	0.2865	0.0211	0.0	0.1600	0.0	0.0275
	59	0.0	0.0058	0.0000	0.0	0.0021	0.0	0.0002
	60	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0000
146	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	54	0.0	0.0	0.0001	0.0	0.0000	0.0	0.0001
	55	0.0	0.0005	0.0115	0.0	0.0015	0.0	0.0171
	56	0.0	0.0740	0.2802	0.0	0.1349	0.0	0.3093
	57	0.0	0.3584	0.4476	0.0	0.4519	0.0	0.5620
	58	0.0	0.5379	0.2505	0.0	0.3972	0.0	0.1099
	59	0.0	0.0286	0.0091	0.0	0.0144	0.0	0.0020
	60	0.0	0.0004	0.0001	0.0	0.0001	0.0	0.0000
	61	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
147	54	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	55	0.0	0.0000	0.0012	0.0	0.0001	0.0	0.0021
	56	0.0	0.0107	0.0902	0.0	0.0268	0.0	0.1130
	57	0.0	0.1628	0.3759	0.0	0.2633	0.0	0.5648
	58	0.0	0.7075	0.4915	0.0	0.6398	0.0	0.3040
	59	0.0	0.1156	0.0396	0.0	0.0683	0.0	0.0164
	60	0.0	0.0050	0.0009	0.0	0.0016	0.0	0.0001
	61	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
148	54	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	55	0.0	0.0	0.0039	0.0	0.0000	0.0	0.0002
	56	0.0	0.0011	0.0700	0.0	0.0040	0.0	0.0285
	57	0.0	0.0547	0.2252	0.0	0.1101	0.0	0.3792
	58	0.0	0.6498	0.5063	0.0	0.6845	0.0	0.5165
	59	0.0	0.2639	0.2590	0.0	0.1888	0.0	0.0749
	60	0.0	0.0301	0.0347	0.0	0.0125	0.0	0.0010
	61	0.0	0.0[illegible]	0.0010	0.0	0.0000	0.0	0.0000
	62	0.0	0.000[illegible]	0.0000	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
150	55	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	56	0.0	0.0001	0.0019	0.0	0.0004	0.0	0.0049
	57	0.0	0.0137	0.0785	0.0	0.0323	0.0	0.1748
	58	0.0	0.4142	0.6436	0.0	0.5298	0.0	0.5939
	59	0.0	0.4296	0.2527	0.0	0.3705	0.0	0.2189
	60	0.0	0.1407	0.0225	0.0	0.0665	0.0	0.0078
	61	0.0	0.0014	0.0001	0.0	0.0004	0.0	0.0000
	62	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
151	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	56	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0000
	57	0.0	0.0002	0.0039	0.0	0.0009	0.0	0.0127
	58	0.0	0.0061	0.2135	0.0	0.0994	0.0	0.2728
	59	0.0	0.3030	0.4953	0.0	0.4189	0.0	0.5791
	60	0.0	0.6059	0.2796	0.0	0.4595	0.0	0.1329
	61	0.0	0.0436	0.0068	0.0	0.0211	0.0	0.0028
	62	0.0	0.0008	0.0000	0.0	0.0002	0.0	0.0000
	63	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
152	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	57	0.0	0.0000	0.0004	0.0	0.0001	0.0	0.0019
	58	0.0	0.0085	0.0654	0.0	0.0228	0.0	0.1069
	59	0.0	0.1462	0.3795	0.0	0.2459	0.0	0.5591
	60	0.0	0.7108	0.5204	0.0	0.6529	0.0	0.3146
	61	0.0	0.1277	0.0331	0.0	0.0763	0.0	0.0178
	62	0.0	0.0064	0.0004	0.0	0.0020	0.0	0.0001
	63	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
153	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	57	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0002
	58	0.0	0.0011	0.0141	0.0	0.0038	0.0	0.0296
	59	0.0	0.0523	0.2062	0.0	0.1074	0.0	0.3845
	60	0.0	0.6324	0.6705	0.0	0.6829	0.0	0.5124
	61	0.0	0.2770	0.1051	0.0	0.1927	0.0	0.0726
	62	0.0	0.0366	0.0034	0.0	0.0130	0.0	0.0009
	63	0.0	0.0001	0.0000	0.0	0.0000	0.0	0.0000
	64	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
154	57	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	58	0.0	0.0001	0.0022	0.0	0.0005	0.0	0.0056
	59	0.0	0.0137	0.0829	0.0	0.0346	0.0	0.1875
	60	0.0	0.4142	0.6495	0.0	0.5407	0.0	0.5953
	61	0.0	0.4296	0.2440	0.0	0.3618	0.0	0.2051
	62	0.0	0.1407	0.0207	0.0	0.0620	0.0	0.0068
	63	0.0	0.0014	0.0001	0.0	0.0004	0.0	0.0000
	64	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
155	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	58	0.0	0.0000	0.0003	0.0	0.0000	0.0	0.0009
	59	0.0	0.0027	0.0269	0.0	0.0084	0.0	0.0704
	60	0.0	0.1962	0.4864	0.0	0.3159	0.0	0.5082
	61	0.0	0.4558	0.4049	0.0	0.4800	0.0	0.3899
	62	0.0	0.3365	0.0802	0.0	0.1927	0.0	0.0308
	63	0.0	0.0083	0.0006	0.0	0.0030	0.0	0.0002
	64	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
156	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	58	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0001
	59	0.0	0.0004	0.0071	0.0	0.0017	0.0	0.0218
	60	0.0	0.0715	0.2855	0.0	0.1430	0.0	0.3414
	61	0.0	0.3543	0.4945	0.0	0.4574	0.0	0.5430
	62	0.0	0.5435	0.2084	0.0	0.3846	0.0	0.0926
	63	0.0	0.0295	0.0037	0.0	0.0133	0.0	0.0014
	64	0.0	0.0004	0.0000	0.0	0.0001	0.0	0.0000
	65	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
157	59	0.0	0.0	0.0000	0.0	0.0	0.0	0.0000
	60	0.0	0.0000	0.0012	0.0	0.0002	0.0	0.0047
	61	0.0	0.0174	0.1174	0.0	0.0430	0.0	0.1707
	62	0.0	0.2029	0.4494	0.0	0.3172	0.0	0.5932
	63	0.0	0.6901	0.4139	0.0	0.5910	0.0	0.2236
	64	0.0	0.0863	0.0172	0.0	0.0478	0.0	0.0082
	65	0.0	0.0029	0.0001	0.0	0.0008	0.0	0.0000
	66	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
158	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	59	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0006
	60	0.0	0.0029	0.0310	0.0	0.0087	0.0	0.0580
	61	0.0	0.0863	0.2887	0.0	0.1597	0.0	0.4814
	62	0.0	0.6901	0.6157	0.0	0.6922	0.0	0.4217
	63	0.0	0.2029	0.0625	0.0	0.1334	0.0	0.0384
	64	0.0	0.0174	0.0013	0.0	0.0060	0.0	0.0003
	65	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0000
159	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	59	0.0	0.0	0.0000	0.0	0.0000	0.0	0.0001
	60	0.0	0.0003	0.0056	0.0	0.0013	0.0	0.0139
	61	0.0	0.0267	0.1341	0.0	0.0608	0.0	0.2831
	62	0.0	0.5253	0.6826	0.0	0.6251	0.0	0.5748
	63	0.0	0.3665	0.1679	0.0	0.2911	0.0	0.1260
	64	0.0	0.0793	0.0090	0.0	0.0315	0.0	0.0026
	65	0.0	0.0005	0.0000	0.0	0.0001	0.0	0.0000
	66	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
160	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
	60	0.0	0.0000	0.0000	0.0	0.0001	0.0	0.0022
	61	0.0	0.0053	0.0086	0.0	0.0162	0.0	0.1162
	62	0.0	0.2744	0.6425	0.0	0.4160	0.0	0.5674
	63	0.0	0.4648	0.3425	0.0	0.4429	0.0	0.2988
	64	0.0	0.2508	0.0057	0.0	0.1235	0.0	0.0157
	65	0.0	0.0044	0.0000	0.0	0.0013	0.0	0.0001
	66	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 15. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR THERMAL FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
161	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	60	0.0	0.0	0.0001	0.0	0.0000	0.0	0.0002
	61	0.0	0.0007	0.0110	0.0	0.0027	0.0	0.0332
	62	0.0	0.0738	0.3458	0.0	0.1830	0.0	0.4006
	63	0.0	0.3861	0.4792	0.0	0.4769	0.0	0.4996
	64	0.0	0.4964	0.1610	0.0	0.3282	0.0	0.0661
	65	0.0	0.0223	0.0022	0.0	0.0091	0.0	0.0008
	66	0.0	0.0002	0.0000	0.0	0.0000	0.0	0.0000
	67	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION.

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
[illegible]	[illegible]	[illegible]	[illegible]	0.0001	0.0004	0.0000	0.0000	0.0001
	[illegible]	[illegible]	[illegible]	0.0101	0.0474	0.0056	0.0112	0.0171
	[illegible]	[illegible]	[illegible]	0.3335	0.4515	0.1624	0.2579	0.3093
	[illegible]	0.4941	0.4562	0.4832	0.4525	0.4673	0.5862	0.5620
	[illegible]	[illegible]	0.1953	0.1699	0.0474	0.2390	0.1437	0.1099
	[illegible]	[illegible]	0.0027	0.0025	0.0004	0.0046	0.0033	0.0020
	[illegible]	[illegible]	[illegible]	0.0000	0.0000	0.0000	0.0000	0.0000
[illegible]	[illegible]	[illegible]	[illegible]	0.0000	0.0000	0.0	0.0000	0.0000
	[illegible]	[illegible]	0.0012	0.0015	0.0107	0.0007	0.0017	0.0031
	[illegible]	[illegible]	[illegible]	[illegible]	0.2527	[illegible]	0.1311	0.1400
	[illegible]	[illegible]	0.4209	0.4616	0.3864	0.4037	0.5535	0.5829
	[illegible]	0.1971	0.4337	0.0001	0.1474	0.4335	0.3256	0.2626
	[illegible]	[illegible]	0.0184	0.0147	0.0035	0.0245	0.0193	0.0117
	[illegible]	[illegible]	0.0001	0.0001	0.0000	0.0003	0.0001	0.0000
	[illegible]	[illegible]	0.0000	0.0	0.0	0.0000	0.0	0.0
[illegible]	[illegible]	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	27	0.0009	0.0001	0.0002	0.0016	0.0001	0.0002	0.0004
	[illegible]	[illegible]	0.0312	0.0349	0.0982	0.0101	0.0275	0.0427
	29	[illegible]	0.2600	0.3024	0.3499	0.3332	0.3741	0.4371
	30	0.5847	0.6485	0.6036	0.3308	0.6617	0.5211	0.4671
	31	0.0298	0.0589	0.0571	0.0201	0.0829	0.0774	0.0525
	32	0.0002	0.0014	0.0011	0.0001	0.0023	0.0010	0.0005
	33	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
[illegible]	27	0.0001	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
	28	0.0185	0.0036	0.0065	0.0275	0.0033	0.0051	0.0090
	29	0.3193	0.1192	0.1438	0.3739	0.0996	0.1792	0.2321
	30	0.5549	0.7095	0.6639	0.5207	0.6779	0.5951	0.5914
	31	0.1047	0.1561	0.1573	0.0773	0.2045	0.2144	0.1637
	32	0.0016	0.0098	0.0079	0.0010	0.0149	0.0075	0.0042
	33	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
[illegible]	27	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	28	0.0031	0.0007	0.0009	0.0051	0.0004	0.0006	0.0013
	29	0.1397	0.0410	0.0506	0.1790	0.0313	0.0600	0.0899
	30	0.5817	0.5966	0.5852	0.5947	0.5243	0.5865	0.5395
	31	0.2521	0.3115	0.3208	0.2143	0.3749	0.4168	0.3468
	32	0.0116	0.0498	0.0407	0.0075	0.0689	0.0370	0.0226
	33	0.0000	0.0001	0.0002	0.0000	0.0005	0.0003	0.0001
	34	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
77	28	0.0004	0.0000	0.0001	0.0006	0.0000	0.0001	0.0001
	29	0.0436	0.0035	0.0120	0.0600	0.0064	0.0133	0.0226
	30	0.4369	0.2227	0.3581	0.4862	0.2799	0.2782	0.3468
	31	0.4661	0.4621	0.4747	0.4166	0.4853	0.5775	0.5395
	32	0.0524	0.3051	0.1524	0.0370	0.2236	0.1295	0.0899
	33	0.0006	0.0067	0.0020	0.0008	0.0040	0.0027	0.0013
	34	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
78	28	0.0000	0.0	0.0000	0.0000	0.0	0.0000	0.0000
	29	0.0092	0.0004	0.0017	0.0127	0.0007	0.0019	0.0036
	30	0.2231	0.0643	0.1325	0.2729	0.0903	0.1070	0.1511
	31	0.5920	0.3419	0.4527	0.5792	0.4076	0.5596	0.5877
	32	0.1704	0.5604	0.3957	0.1329	0.4778	0.3149	0.2477
	33	0.0046	0.0377	0.0166	0.0028	0.0236	0.0178	0.0102
	34	0.0000	0.0005	0.0001	0.0000	0.0003	0.0001	0.0000
	35	0.0	0.0000	0.0000	0.0	0.0000	0.0	0.0
79	27	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	28	0.0	0.0	0.0020	0.0000	0.0	0.0	0.0
	29	0.0010	0.0000	0.0172	0.0017	0.0000	0.0002	0.0003
	30	0.0768	0.0107	0.1440	0.1010	0.0177	0.0268	0.0412
	31	0.4135	0.1628	0.2410	0.5531	0.2207	0.3687	0.4321
	32	0.3794	0.7078	0.4069	0.3234	0.6698	0.5250	0.4719
	33	0.0255	0.1107	0.1378	0.0193	0.0898	0.0798	0.0543
	34	0.0002	0.0051	0.0470	0.0001	0.0027	0.0011	0.0005
	35	0.0000	0.0000	0.0032	0.0	0.0000	0.0000	0.0000
	36	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
80	29	0.0001	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
	30	0.0179	0.0016	0.0059	0.0275	0.0028	0.0047	0.0086
	31	0.3140	0.0623	0.1373	0.3739	0.0922	0.1709	0.2283
	32	0.4579	0.6558	0.6831	0.5207	0.6714	0.5936	0.5924
	33	0.1067	0.2515	0.1643	0.0773	0.2166	0.2238	0.1667
	34	0.0019	0.0288	0.0086	0.0010	0.0170	0.0082	0.0044
	35	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	36	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
81	29	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	30	0.0030	0.0001	0.0007	0.0049	0.0003	0.0005	0.0011
	31	0.1381	0.0160	0.0446	0.1749	0.0263	0.0543	0.0822
	32	0.5799	0.4402	0.5673	0.5941	0.4956	0.4724	0.5284
	33	0.2671	0.4178	0.3391	0.2189	0.3957	0.4325	0.3630
	34	0.0122	0.1249	0.0473	0.0078	0.0817	0.0412	0.0254
	35	0.0000	0.0011	0.0003	0.0000	0.0006	0.0003	0.0001
	36	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
82	30	0.0003	0.0	0.0001	0.0006	0.0003	0.0000	0.0001
	31	0.0313	0.0006	0.0101	0.0561	0.0137	0.0112	0.0193
	32	0.4208	0.1486	0.3335	0.4768	0.2788	0.2579	0.3253
	33	0.4804	0.5298	0.4832	0.4270	0.4147	0.5852	0.5530
	34	0.0579	0.3132	0.1699	0.0398	0.2788	0.1437	0.1010
	35	0.0006	0.0029	0.0025	0.0003	0.0137	0.0033	0.0017
	36	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000
	37	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
83	30	0.0000	0.0	0.0	0.0000	0.0	0.0000	0.0000
	31	0.0074	0.0002	0.0000	0.0122	0.0006	0.0016	0.0031
	32	0.2138	0.0516	0.0613	0.2678	0.0790	0.0962	0.1400
	33	0.5923	0.3162	0.5679	0.5812	0.3917	0.5503	0.5829
	34	0.1786	0.5916	0.3677	0.1364	0.5015	0.3310	0.2626
	35	0.0051	0.0397	0.0023	0.0030	0.0272	0.0201	0.0117
	36	0.0000	0.0007	0.0000	0.0000	0.0003	0.0001	0.0000
	37	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0
84	30	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	31	0.0009	0.0000	0.0025	0.0018	0.0000	0.0001	0.0003
	32	0.0723	0.0093	0.0876	0.1039	0.0156	0.0236	0.0398
	33	0.5113	0.1527	0.2962	0.5562	0.2083	0.3525	0.4269
	34	0.3837	0.7101	0.5137	0.3201	0.6759	0.5364	0.4767
	35	0.0296	0.1220	0.0912	0.0185	0.0971	0.0873	0.0561
	36	0.0002	0.0058	0.0080	0.0001	0.0031	0.0013	0.0006
	37	0.0000	0.0000	0.0001	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
85	31	0.0001	0.0	0.0000	0.0002	0.0000	0.0000	0.0000
	32	0.0170	0.0011	0.0049	0.0265	0.0022	0.0038	0.0075
	33	0.3087	0.0524	0.1249	0.3685	0.0807	0.1550	0.2142
	34	0.5608	0.6327	0.6802	0.5247	0.6589	0.5896	0.5945
	35	0.1097	0.2771	0.1790	0.0797	0.2374	0.2430	0.1790
	36	0.0020	0.0366	0.0103	0.0011	0.0210	0.0098	0.0051
	37	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
	38	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
86	31	0.0000	0.0	0.0000	0.0000	0.0	0.0	0.0
	32	0.0024	0.0001	0.0033	0.0042	0.0002	0.0004	0.0009
	33	0.1224	0.0121	0.0638	0.1627	0.0211	0.0458	0.0726
	34	0.5712	0.3949	0.5004	0.5916	0.4596	0.4478	0.5124
	35	0.2877	0.4377	0.3341	0.2331	0.4190	0.4578	0.3845
	36	0.0144	0.1536	0.0955	0.0090	0.0994	0.0491	0.0296
	37	0.0001	0.0017	0.0022	0.0000	0.0009	0.0005	0.0002
	38	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
87	31	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	32	0.0002	0.0000	0.0009	0.0005	0.0000	0.0000	0.0001
	33	0.0319	0.0016	0.0380	0.0490	0.0038	0.0082	0.0151
	34	0.3944	0.1492	0.4741	0.4575	0.2183	0.2238	0.2935
	35	0.5029	0.4352	0.3826	0.4475	0.4856	0.5938	0.5700
	36	0.0681	0.4014	0.1020	0.0458	0.2858	0.1709	0.1194
	37	0.0008	0.0126	0.0016	0.0004	0.0067	0.0047	0.0023
	38	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
88	30	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	31	0.0	0.0	0.0005	0.0	0.0	0.0	0.0
	32	0.0000	0.0	0.0097	0.0000	0.0	0.0	0.0000
	33	0.0054	0.0001	0.0422	0.0094	0.0003	0.0010	0.0020
	34	0.1828	0.0300	0.2131	0.2380	0.0557	0.0750	0.1099
	35	0.5937	0.2558	0.2483	0.5905	0.3487	0.5170	0.5620
	36	0.2092	0.6522	0.3372	0.1588	0.5567	0.3795	0.3093
	37	0.0071	0.0606	0.1059	0.0040	0.0382	0.0286	0.0171
	38	0.0000	0.0013	0.0387	0.0000	0.0006	0.0002	0.0001
	39	0.0	0.0000	0.0032	0.0	0.0000	0.0000	0.0
	40	0.0	0.0	0.0003	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
89	32	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	33	0.0006	0.0	0.0	0.0012	0.0000	0.0001	0.0002
	34	0.0579	0.0001	0.0025	0.0847	0.0046	0.0164	0.0296
	35	0.4804	0.0518	0.2116	0.5324	0.1532	0.3043	0.3845
	36	0.4205	0.8612	0.7521	0.3577	0.7349	0.5653	0.5124
	37	0.0363	0.0869	0.0330	0.0245	0.1054	0.1131	0.0726
	38	0.0003	0.0002	0.0000	0.0001	0.0021	0.0021	0.0009
	39	0.0000	0.0	0.0	0.0000	0.0000	0.0000	0.0000
90	33	0.0000	0.0	0.0000	0.0001	0.0	0.0000	0.0000
	34	0.0127	0.0006	0.0064	0.0218	0.0001	0.0026	0.0054
	35	0.1722	0.0385	0.1680	0.3415	0.0288	0.1261	0.1932
	36	0.5779	0.5866	0.7098	0.5432	0.7013	0.5753	0.5950
	37	0.1324	0.3205	0.1124	0.0926	0.2626	0.2834	0.2096
	38	0.0028	0.0536	0.0027	0.0014	0.0074	0.0139	0.0071
	39	0.0000	0.0003	0.0000	0.0000	0.0000	0.0001	0.0000
	40	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
91	33	0.0000	0.0000	0.0000	0.0000	0.0	0.0	0.0
	34	0.0020	0.0030	0.0012	0.0036	0.0000	0.0003	0.0006
	35	0.1097	0.0355	0.0259	0.1511	0.0074	0.0384	0.0599
	36	0.5608	0.3359	0.3458	0.5879	0.4104	0.4221	0.4860
	37	0.3087	0.3301	0.3901	0.2477	0.4937	0.4818	0.4164
	38	0.0170	0.2256	0.2201	0.0102	0.0885	0.0581	0.0370
	39	0.0001	0.0188	0.0119	0.0000	0.0003	0.0006	0.0003
	40	0.0	0.0011	0.0003	0.0	0.0000	0.0000	0.0000
	41	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
92	34	0.0002	0.0001	0.0000	0.0004	0.0	0.0000	0.0001
	35	0.0296	0.0043	0.0067	0.0442	0.0008	0.0068	0.0133
	36	0.2837	0.1558	0.3249	0.4424	0.1466	0.2053	0.2779
	37	0.5113	0.3524	0.5137	0.4624	0.5317	0.5958	0.5770
	38	0.0725	0.4491	0.1527	0.0507	0.3168	0.1876	0.1294
	39	0.0009	0.0369	0.0014	0.0005	0.0043	0.0056	0.0027
	40	0.0000	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
	41	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
93	34	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	35	0.0051	0.0001	0.0007	0.0094	0.0000	0.0008	0.0019
	36	0.1786	0.0288	0.1049	0.2380	0.0238	0.0683	0.1069
	37	0.5933	0.2815	0.4670	0.5905	0.3404	0.5044	0.5591
	38	0.2138	0.6558	0.4133	0.1588	0.6119	0.3956	0.3146
	39	0.0074	0.0623	0.0133	0.0040	0.0241	0.0320	0.0178
	40	0.0000	0.0016	0.0001	0.0000	0.0001	0.0002	0.0001
	41	0.0	0.0000	0.0	0.0	0.0	0.0000	0.0
94	34	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	35	0.0006	0.0000	0.0008	0.0013	0.0000	0.0001	0.0002
	36	0.0598	0.0046	0.0370	0.0873	0.0091	0.0157	0.0285
	37	0.4850	0.1083	0.1916	0.5361	0.1632	0.2990	0.3792
	38	0.4156	0.7057	0.5548	0.3523	0.6918	0.5680	0.5165
	39	0.0369	0.1698	0.1814	0.0235	0.1804	0.1163	0.0749
	40	0.0003	0.0117	0.0331	0.0001	0.0057	0.0022	0.0010
	41	0.0000	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
	42	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
95	35	0.0001	0.0000	0.0000	0.0001	0.0	0.0000	0.0000
	36	0.0132	0.0013	0.0036	0.0226	0.0010	0.0023	0.0051
	37	0.2773	0.0532	0.1282	0.3469	0.0565	0.1195	0.1790
	38	0.5795	0.6236	0.7135	0.5397	0.6267	0.5705	0.5945
	39	0.1292	0.2811	0.1491	0.0899	0.2856	0.2938	0.2142
	40	0.0027	0.0408	0.0049	0.0013	0.0304	0.0151	0.0075
	41	0.0000	0.0002	0.0000	0.0000	0.0001	0.0001	0.0000
	42	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
96	35	0.0000	0.0000	0.0000	0.0000	0.0	0.0	0.0
	36	0.0020	0.0012	0.0043	0.0038	0.0000	0.0002	0.0006
	37	0.1097	0.0252	0.0632	0.1549	0.0030	0.0344	0.0580
	38	0.5608	0.3433	0.4585	0.5892	0.3026	0.4063	0.4814
	39	0.3087	0.3603	0.3392	0.2428	0.5527	0.4956	0.4217
	40	0.0170	0.2558	0.1292	0.0098	0.1423	0.0640	0.0384
	41	0.0001	0.0139	0.0048	0.0000	0.0006	0.0007	0.0003
	42	0.0	0.0000	0.0001	0.0	0.0000	0.0000	0.0000
	43	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
[illegible]	35	0.0000	0.0	0.0000	0.0004	0.0000	0.0000	0.0001
	37	0.0307	0.0002	0.0100	0.0474	0.0031	0.0065	0.0133
	38	0.3891	0.0822	0.3441	0.3525	0.1816	0.2008	0.2779
	39	0.5071	0.4570	0.4863	0.4525	0.4596	0.5960	0.5770
	40	0.0702	0.4526	0.1568	0.0474	0.3439	0.1920	0.1294
	41	0.0009	0.0082	0.0019	0.0004	0.0119	0.0059	0.0027
	42	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
[illegible]	35	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	37	0.0062	0.0001	0.0008	0.0127	0.0003	0.0009	0.0021
	38	0.1955	0.0285	0.0915	0.2729	0.0499	0.0705	0.1130
	39	0.5943	0.2515	0.4208	0.5792	0.2353	0.5087	0.5648
	40	0.1959	0.6558	0.4627	0.1329	0.5720	0.3903	0.3040
	41	0.0062	0.0623	0.0233	0.0028	0.0421	0.0308	0.0164
	42	0.0000	0.0016	0.0002	0.0000	0.0007	0.0002	0.0001
	43	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0
99	34	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0024	0.0000	0.0	0.0	0.0
	37	0.0008	0.0000	0.0173	0.0018	0.0000	0.0001	0.0002
	38	0.0681	0.0051	0.1348	0.1039	0.0100	0.0178	0.0332
	39	0.5029	0.1137	0.3237	0.5562	0.1704	0.3149	0.4006
	40	0.3944	0.7078	0.3996	0.3201	0.6904	0.5596	0.4996
	41	0.0319	0.1628	0.1527	0.0185	0.1244	0.1070	0.0661
	42	0.0002	0.0107	0.0628	0.0001	0.0052	0.0019	0.0008
	43	0.0000	0.0000	0.0055	0.0	0.0000	0.0000	0.0000
	44	0.0	0.0	0.0005	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
100	37	0.0001	0.0	0.0000	0.0002	0.0000	0.0000	0.0000
	38	0.0185	0.0007	0.0042	0.0320	0.0016	0.0031	0.0071
	39	0.3193	0.0410	0.1161	0.3954	0.0683	0.1401	0.2096
	40	0.5549	0.5966	0.6768	0.5041	0.6400	0.5834	0.5950
	41	0.1037	0.2118	0.1904	0.0682	0.2634	0.2629	0.1832
	42	0.0018	0.0498	0.0118	0.0008	0.0269	0.0117	0.0054
	43	0.0000	0.0002	0.0000	0.0000	0.0001	0.0000	0.0000
	44	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
101	37	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	38	0.0035	0.0001	0.0006	0.0068	0.0002	0.0004	0.0011
	39	0.1470	0.0107	0.0405	0.2032	0.0204	0.0474	0.0797
	40	0.5850	0.3754	0.5523	0.5955	0.4535	0.4528	0.5246
	41	0.2521	0.4448	0.3528	0.1875	0.4227	0.4528	0.3684
	42	0.0107	0.1671	0.0528	0.0056	0.1026	0.0474	0.0264
	43	0.0000	0.0020	0.0003	0.0000	0.0009	0.0004	0.0002
	44	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
102	37	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	38	0.0005	0.0000	0.0001	0.0049	0.0000	0.0000	0.0001
	39	0.0489	0.0018	0.0097	0.1749	0.0040	0.0107	0.0218
	40	0.4504	0.1500	0.3274	0.5941	0.2236	0.2529	0.3414
	41	0.4464	0.4402	0.4850	0.2189	0.4863	0.5868	0.5430
	42	0.0457	0.3884	0.1745	0.0078	0.2799	0.1474	0.0926
	43	0.0004	0.0116	0.0026	0.0000	0.0064	0.0035	0.0014
	44	0.0000	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
103	38	0.0000	0.0	0.0	0.0001	0.0	0.0000	0.0000
	39	0.0116	0.0002	0.0	0.0209	0.0005	0.0018	0.0040
	40	0.2621	0.0444	0.0284	0.3361	0.0738	0.1040	0.1588
	41	0.5817	0.2988	0.6690	0.5466	0.3834	0.3566	0.3903
	42	0.1393	0.6108	0.3017	0.0954	0.3130	0.3203	0.2379
	43	0.0031	0.0450	0.0002	0.0015	0.0292	0.0185	0.0094
	44	0.0000	0.0009	0.0	0.0000	0.0003	0.0001	0.0000
	45	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
104	38	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	39	0.0020	0.0000	0.0002	0.0040	0.0000	0.0002	0.0005
	40	0.1097	0.0099	0.0377	0.1588	0.0177	0.0297	0.0543
	41	0.5608	0.1495	0.3116	0.5905	0.2207	0.3849	0.4719
	42	0.2017	0.7107	0.5951	0.2380	0.6693	0.5129	0.4221
	43	0.0170	0.1249	0.0538	0.0094	0.0898	0.0727	0.0412
	44	0.0001	0.0061	0.0010	0.0000	0.0023	0.0009	0.0003
	45	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
1	39	0.0002	0.0	0.0000	0.0004	0.0000	0.0000	0.0000
	40	0.0164	0.0010	0.0059	0.0442	0.0026	0.0047	0.0102
	41	0.3676	0.0495	0.1373	0.4424	0.0829	0.1709	0.2477
	42	0.5231	0.0242	0.6831	0.4624	0.6617	0.5938	0.5877
	43	0.0795	0.1858	0.1643	0.0507	0.0532	0.2238	0.1511
	44	0.0011	0.0396	0.0086	0.0005	0.0201	0.0082	0.0036
	45	0.0003	0.0002	0.0000	0.0000	0.0001	0.0000	0.0000
	46	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
104	38	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
	39	0.0000	0.0	0.0	0.0000	0.0005	0.0	0.0000
	40	0.0026	0.0001	0.0006	0.0078	0.0156	0.0004	0.0011
	41	0.1546	0.0107	0.0405	0.2189	0.0804	0.0458	0.0822
	42	0.2871	0.3734	0.5523	0.5941	0.3845	0.4478	0.5284
	43	0.3423	0.4448	0.3529	0.1749	0.4896	0.4578	0.3630
	44	0.0098	0.1671	0.0528	0.0049	0.0046	0.0491	0.0254
	45	0.0000	0.0020	0.0003	0.0000	0.0227	0.0005	0.0001
	46	0.0	0.0000	0.0000	0.0	0.0022	0.0000	0.0000
	47	0.0	0.0	0.0	0.0	0.0000	0.0	0.0
107	40	0.0004	0.0000	0.0000	0.0009	0.0000	0.0000	0.0001
	41	0.0426	0.0012	0.0078	0.0704	0.0036	0.0082	0.0178
	42	0.4363	0.1257	0.2973	0.5083	0.2130	0.2238	0.3146
	43	0.4661	0.4209	0.4924	0.3900	0.4848	0.5938	0.5591
	44	0.0524	0.4337	0.1984	0.0308	0.2918	0.1709	0.1069
	45	0.0005	0.0154	0.0034	0.0002	0.0070	0.0047	0.0019
	46	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	47	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
108	40	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	41	0.0022	0.0000	0.0002	0.0044	0.0003	0.0002	0.0006
	42	0.1159	0.0085	0.0377	0.1667	0.0518	0.0297	0.0561
	43	0.5662	0.1462	0.3116	0.5925	0.3398	0.3849	0.4767
	44	0.2981	0.7111	0.5951	0.2284	0.5670	0.5129	0.4269
	45	0.0157	0.1278	0.0538	0.0086	0.0408	0.0727	0.0398
	46	0.0001	0.0064	0.0010	0.0000	0.0006	0.0009	0.0003
	47	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
109	41	0.0001	0.0	0.0000	0.0003	0.0000	0.0000	0.0000
	42	0.0244	0.0007	0.0049	0.0412	0.0017	0.0035	0.0086
	43	0.3569	0.0410	0.1249	0.4332	0.0702	0.1474	0.2283
	44	0.5311	0.5966	0.6802	0.4721	0.6434	0.5868	0.5924
	45	0.0945	0.3118	0.1790	0.0543	0.2590	0.2529	0.1667
	46	0.0012	0.0498	0.0103	0.0005	0.0250	0.0107	0.0044
	47	0.0000	0.0002	0.0000	0.0000	0.0001	0.0000	0.0000
	48	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
110	41	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	42	0.0051	0.0001	0.0007	0.0102	0.0002	0.0005	0.0014
	43	0.1786	0.0107	0.0460	0.2477	0.0219	0.0508	0.0926
	44	0.5933	0.3754	0.5721	0.5879	0.4657	0.4627	0.5430
	45	0.3138	0.4448	0.3346	0.1511	0.4153	0.4427	0.3414
	46	0.0074	0.1671	0.0456	0.0036	0.0963	0.0442	0.0218
	47	0.0000	0.0020	0.0002	0.0000	0.0008	0.0004	0.0001
	48	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
111	41	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	42	0.0005	0.0000	0.0001	0.0020	0.0000	0.0001	0.0002
	43	0.0702	0.0021	0.0130	0.1100	0.0051	0.0145	0.0296
	44	0.5071	0.1710	0.3705	0.5621	0.2511	0.2886	0.3845
	45	0.3841	0.4470	0.4698	0.3094	0.4879	0.5730	0.5124
	46	0.0307	0.3689	0.1441	0.0171	0.2511	0.1228	0.0726
	47	0.0001	0.0103	0.0018	0.0001	0.0051	0.0024	0.0009
	48	0.0000	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
112	42	0.0001	0.0	0.0000	0.0003	0.0000	0.0000	0.0000
	43	0.0217	0.0	0.0019	0.0384	0.0009	0.0031	0.0075
	44	0.3407	0.0004	0.1713	0.4218	0.1026	0.1401	0.2142
	45	0.5419	0.2694	0.3117	0.4815	0.4227	0.5834	0.5943
	46	0.0974	0.6311	0.3080	0.0580	0.4535	0.2629	0.1790
	47	0.0014	0.0002	0.0065	0.0006	0.0204	0.0117	0.0051
	48	0.0000	0.0	0.0000	0.0000	0.0002	0.0000	0.0000
	49	0.0	0.0	0.0	0.0	0.0000	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
111	42	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0000
	43	0.0049	0.0000	0.0004	0.0102	0.0001	0.0005	0.0013
	44	0.1745	0.0153	0.0654	0.2477	0.0303	0.0508	0.0899
	45	0.5917	0.1915	0.3795	0.5879	0.2767	0.4627	0.5395
	46	0.2184	0.6965	0.5204	0.1511	0.6291	0.4427	0.3468
	47	0.0078	0.0953	0.0331	0.0036	0.0626	0.0442	0.0226
	48	0.0000	0.0034	0.0004	0.0000	0.0014	0.0004	0.0001
	49	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
112	42	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	43	0.0005	0.0000	0.0000	0.0020	0.0000	0.0001	0.0002
	44	0.0681	0.0079	0.0175	0.1100	0.0069	0.0133	0.0285
	45	0.5029	0.0844	0.2269	0.5621	0.1430	0.2782	0.3792
	46	0.3944	0.6904	0.6600	0.3094	0.6933	0.5775	0.5165
	47	0.0319	0.2029	0.0923	0.0171	0.1495	0.1295	0.0749
	48	0.0001	0.0174	0.0027	0.0001	0.0076	0.0027	0.0010
	49	0.0000	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
113	43	0.0001	0.0	0.0	0.0002	0.0	0.0000	0.0000
	44	0.0138	0.0004	0.0	0.0332	0.0010	0.0023	0.0059
	45	0.3140	0.0276	0.0041	0.4007	0.0524	0.1195	0.1918
	46	0.5579	0.5324	0.9131	0.4997	0.6047	0.5705	0.5955
	47	0.1067	0.3647	0.0821	0.0661	0.3037	0.2938	0.2006
	48	0.0019	0.0766	0.0000	0.0008	0.0383	0.0151	0.0065
	49	0.0000	0.0005	0.0	0.0000	0.0002	0.0001	0.0000
	50	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
114	43	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	44	0.0038	0.0000	0.0004	0.0098	0.0001	0.0003	0.0009
	45	0.1546	0.0080	0.0320	0.2428	0.0138	0.0370	0.0704
	46	0.5878	0.3303	0.5149	0.5892	0.3910	0.4168	0.3082
	47	0.2423	0.4575	0.3838	0.1549	0.4544	0.4865	0.3899
	48	0.0092	0.2015	0.0677	0.0038	0.1390	0.0600	0.0308
	49	0.0000	0.0028	0.0005	0.0000	0.0016	0.0006	0.0002
	50	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
117	43	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	44	0.0007	0.0000	0.0043	0.0022	0.0000	0.0000	0.0001
	45	0.0638	0.0001	0.0834	0.1162	0.0026	0.0078	0.0178
	46	0.4941	0.1718	0.3635	0.3676	0.1783	0.2191	0.3146
	47	0.4050	0.4470	0.5898	0.5988	0.4753	0.5945	0.5591
	48	0.0343	0.3689	0.0556	0.0157	0.3345	0.1750	0.1069
	49	0.0001	0.0103	0.0007	0.0001	0.0095	0.0049	0.0019
	50	0.0000	0.0001	0.0000	0.0	0.0001	0.0000	0.0000
118	43	0.0	0.0	0.0	0.0003	0.0	0.0	0.0
	44	0.0001	0.0	0.0001	0.0337	0.0000	0.0000	0.0000
	45	0.0235	0.0004	0.0111	0.4113	0.0010	0.0012	0.0033
	46	0.3513	0.0715	0.3352	0.4908	0.1059	0.0848	0.1436
	47	0.5348	0.3544	0.4761	0.0619	0.4762	0.5327	0.5846
	48	0.0871	0.5438	0.1739	0.0007	0.4473	0.3579	0.2576
	49	0.0013	0.0296	0.0028	0.0000	0.0196	0.0245	0.0112
	50	0.0000	0.0004	0.0000	0.0	0.0002	0.0001	0.0000
	51	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0
119	44	0.0000	0.0	0.0000	0.0001	0.0	0.0	0.0
	45	0.0074	0.0001	0.0009	0.0185	0.0004	0.0002	0.0005
	46	0.1135	0.0277	0.0975	0.3201	0.0599	0.0308	0.0525
	47	0.2933	0.2473	0.4294	0.5562	0.3575	0.3903	0.4671
	48	0.1786	0.6592	0.4507	0.1039	0.5462	0.5087	0.4372
	49	0.0051	0.0641	0.0216	0.0018	0.0358	0.0705	0.0427
	50	0.0000	0.0016	0.0002	0.0000	0.0005	0.0009	0.0004
	51	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
120	44	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	45	0.0021	0.0000	0.0001	0.0062	0.0001	0.0000	0.0001
	46	0.1126	0.0093	0.0397	0.1962	0.0185	0.0094	0.0218
	47	0.5636	0.1527	0.3162	0.5957	0.2248	0.2381	0.3414
	48	0.3034	0.7101	0.5907	0.1962	0.5669	0.5908	0.5430
	49	0.0163	0.1220	0.0521	0.0062	0.0874	0.1589	0.0926
	50	0.0001	0.0058	0.0009	0.0000	0.0026	0.0040	0.0014
	51	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
121	44	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	45	0.0000	0.0000	0.0012	0.0020	0.0000	0.0000	0.0000
	46	0.0596	0.0035	0.0497	0.1100	0.0047	0.0038	0.0067
	47	0.4613	0.0788	0.2206	0.5621	0.1185	0.1550	0.2236
	48	0.4414	0.4832	0.5490	0.3094	0.6884	0.5896	0.5932
	49	0.0441	0.2147	0.1542	0.0171	0.1776	0.2430	0.1707
	50	0.0004	0.0198	0.0241	0.0001	0.0109	0.0098	0.0047
	51	0.0000	0.0001	0.0004	0.0	0.0000	0.0000	0.0000
	52	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
122	45	0.0001	0.0	0.0000	0.0005	0.0000	0.0000	0.0000
	46	0.0200	0.0007	0.0042	0.0507	0.0013	0.0012	0.0028
	47	0.3300	0.0397	0.1161	0.4624	0.0808	0.0848	0.1329
	48	0.5466	0.5916	0.6768	0.4424	0.6253	0.5327	0.5791
	49	0.0979	0.3162	0.1904	0.0442	0.2812	0.3579	0.2728
	50	0.0016	0.0516	0.0118	0.0004	0.0315	0.0345	0.0127
	51	0.0000	0.0002	0.0000	0.0000	0.0001	0.0001	0.0000
	52	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0
123	45	0.0000	0.0	0.0000	0.0001	0.0	0.0	0.0000
	46	0.0074	0.0002	0.0012	0.0245	0.0003	0.0005	0.0010
	47	0.2136	0.0193	0.0606	0.3577	0.0282	0.0508	0.0773
	48	0.5525	0.4119	0.6118	0.5324	0.5073	0.4627	0.5206
	49	0.1755	0.4010	0.2932	0.0847	0.3875	0.4427	0.3758
	50	0.0051	0.1068	0.0323	0.0012	0.0764	0.0442	0.0275
	51	0.0000	0.0009	0.0001	0.0000	0.0005	0.0004	0.0002
	52	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
124	45	0.0000	0.0	0.0001	0.0000	0.0	0.0	0.0
	46	0.0025	0.0000	0.0065	0.0102	0.0000	0.0001	0.0003
	47	0.1258	0.0076	0.0720	0.3477	0.0091	0.0209	0.0412
	48	0.5736	0.3240	0.4504	0.5879	0.3283	0.3364	0.4321
	49	0.2825	0.4588	0.3239	0.1511	0.4770	0.5470	0.4719
	50	0.0138	0.2067	0.1376	0.0036	0.1830	0.0954	0.0543
	51	0.0001	0.0030	0.0065	0.0000	0.0027	0.0015	0.0005
	52	0.0	0.0000	0.0002	0.0	0.0000	0.0000	0.0000
	53	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
125	45	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	46	0.0007	0.0000	0.0001	0.0036	0.0000	0.0000	0.0001
	47	0.0618	0.0024	0.0125	0.1511	0.0056	0.0086	0.0193
	48	0.4896	0.1863	0.3643	0.5879	0.2624	0.2285	0.3253
	49	0.4103	0.4528	0.4723	0.2477	0.4877	0.5929	0.5530
	50	0.0356	0.3495	0.1482	0.0102	0.2399	0.1668	0.1010
	51	0.0003	0.0091	0.0019	0.0000	0.0046	0.0044	0.0017
	52	0.0000	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
126	45	0.0	0.0	0.0001	0.0000	0.0	0.0	0.0
	46	0.0001	0.0	0.0036	0.0010	0.0000	0.0000	0.0000
	47	0.0244	0.0006	0.0359	0.0773	0.0011	0.0027	0.0075
	48	0.3565	0.0849	0.2758	0.5207	0.1127	0.1295	0.2142
	49	0.5311	0.3747	0.3281	0.2739	0.4332	0.5775	0.5945
	50	0.0845	0.5148	0.3064	0.0275	0.4349	0.2782	0.1790
	51	0.0012	0.0249	0.0444	0.0002	0.0182	0.0133	0.0051
	52	0.0000	0.0003	0.0049	0.0000	0.0002	0.0001	0.0000
	53	0.0	0.0000	0.0001	0.0	0.0000	0.0	0.0
	54	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
127	45	0.0000	0.0	0.0001	0.0002	0.0	0.0	0.0000
	46	0.0044	0.0001	0.0063	0.0332	0.0004	0.0007	0.0026
	47	0.2231	0.0312	0.1598	0.4007	0.0599	0.0640	0.1260
	48	0.5920	0.2600	0.3713	0.4997	0.3573	0.4936	0.5748
	49	0.1704	0.6485	0.4156	0.0661	0.5462	0.4063	0.2831
	50	0.0046	0.0589	0.0440	0.0008	0.0356	0.0344	0.0139
	51	0.0000	0.0014	0.0021	0.0000	0.0005	0.0002	0.0001
	52	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0
128	46	0.0000	0.0000	0.0	0.0000	0.0000	0.0	0.0
	47	0.0030	0.0009	0.0	0.0098	0.0007	0.0002	0.0006
	48	0.1097	0.0442	0.0	0.2428	0.0446	0.0286	0.0561
	49	0.5608	0.1838	0.0069	0.5892	0.2246	0.3795	0.4767
	50	0.3097	0.5763	0.7872	0.1549	0.5818	0.5170	0.4269
	51	0.0170	0.1606	0.2050	0.0038	0.1330	0.0750	0.0398
	52	0.0001	0.0337	0.0002	0.0000	0.0154	0.0010	0.0003
	53	0.0	0.0006	0.0	0.0	0.0001	0.0000	0.0000
	54	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
133	49	0.0000	0.0	0.0000	0.0071	0.0002	0.0002	0.0006
	50	0.0031	0.0	0.0000	0.0127	0.2097	0.0277	0.0599
	51	0.1397	0.0004	0.0127	0.3303	0.3951	0.2074	0.3741
	52	0.3817	0.0710	0.3303	0.6366	0.1833	0.6232	0.5211
	53	0.2621	0.1136	0.6366	0.0844	0.0209	0.1006	0.1709
	54	0.0116	0.1151	0.0197	0.0054	0.1307	0.0774	0.0370
	55	0.0000	0.0011	0.0000	0.0000	0.0107	0.0010	0.0003
134	49	0.0	0.0000	0.0	0.0001	0.0000	0.0000	0.0000
	50	0.0	0.0000	0.0000	0.0016	0.0143	0.0047	0.0017
	51	0.0	0.0	0.0	0.0001	0.0000	0.0000	0.0000
	52	0.0	0.0	0.0	0.0000	0.0000	0.0000	0.0000
	53	0.0	0.0	0.0	0.0000	0.0000	0.0000	0.0000
	54	0.0000	0.0011	0.0000	0.0000	0.0107	0.0010	0.0003
	55	0.0	0.0000	0.0	0.0001	0.0000	0.0000	0.0000
135	49	0.0000	0.0	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0112	0.0001	0.0003	0.0011
	51	0.1745	0.0074	0.0088	0.0517	0.0088	0.0384	0.0797
	52	0.3517	0.1463	0.5648	0.3112	0.4221	0.5246	
	53	0.1264	0.4429	0.4634	0.1437	0.4740	0.4016	0.3684
	54	0.0274	0.1204	0.0309	0.0033	0.2016	0.0581	0.0264
	55	0.0000	0.0036	0.0000	0.0000	0.0036	0.0006	0.0002
136	49	0.0000	0.0	0.0	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0013	0.0000	0.0000	0.0001
	51	0.0000	0.0000	0.0000	0.0046	0.0001	0.0006	0.0000
	52	0.0103	0.0103	0.0008	0.0000	0.0046	0.0015	0.0006
	53	0.0429	0.1013	0.0094	0.2399	0.0934	0.0561	
	54	0.0000	0.4537	0.2380	0.4877	0.5470	0.4767	
	55	0.4470	0.4470	0.4637	0.2380	0.4877	0.5470	0.4767
137	49	0.0000	0.0	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0040	0.0001	0.0001	0.0003
	51	0.0079	0.0021	0.0158	0.1588	0.0056	0.0209	0.0398
	52	0.1718	0.4466	0.5905	0.2624	0.3354	0.4269	
	53	0.4469	0.4470	0.4537	0.2380	0.4877	0.5470	0.4767
	54	0.1029	0.1013	0.0094	0.2399	0.0934	0.0561	
	55	0.0103	0.0103	0.0008	0.0000	0.0046	0.0015	0.0006
138	49	0.0000	0.0	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0012	0.0585	0.0965	0.0112
	51	0.1341	0.2064	0.3234	0.0847	0.3515	0.3687	0.2576
	52	0.7798	0.3554	0.5016	0.3234	0.3554	0.5846	
	53	0.6211	0.3554	0.3234	0.0847	0.3515	0.3687	0.2576
	54	0.1012	0.0071	0.0018	0.0245	0.0016	0.0011	0.0033
	55	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
139	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	50	0.0	0.0000	0.0	0.0000	0.0000	0.0000	0.0000
	51	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	52	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	53	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
140	49	0.0000	0.0	0.0000	0.0000	0.0000	0.0000	0.0001
	50	0.0000	0.0000	0.0015	0.0	0.0000	0.0000	0.0001
	51	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000	0.0000
	52	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	53	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	55	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
141	49	0.0000	0.0	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	51	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	52	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	53	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
137	50	0.0000	0.0	0.0	0.0001	0.0	0.0	0.0000
	51	0.0111	0.0000	0.0300	0.0245	0.0004	0.0008	0.0027
	52	0.2571	0.0086	0.0223	0.3577	0.0493	0.0683	0.1294
	53	0.7644	0.1862	0.3851	0.5324	0.3010	0.3044	0.5770
	54	0.1423	0.7330	0.5769	0.0847	0.3855	0.3936	0.2779
	55	0.0013	0.0712	0.0149	0.0012	0.0622	0.0330	0.0153
	56	0.0000	0.0011	0.0000	0.0000	0.0019	0.0002	0.0001
	57	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0
138	50	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	51	0.0016	0.0	0.0	0.0042	0.0	0.0001	0.0003
	52	0.0979	0.0	0.0012	0.1627	0.0005	0.0157	0.0370
	53	0.5486	0.0052	0.1364	0.5916	0.0915	0.2990	0.4164
	54	0.3500	0.9841	0.7662	0.2331	0.6024	0.5680	0.4860
	55	0.0290	0.1108	0.0445	0.0090	0.1050	0.1163	0.0599
	56	0.0001	0.0000	0.0001	0.0000	0.0007	0.0022	0.0006
	57	0.0000	0.0	0.0	0.0	0.0000	0.0000	0.0000
139	51	0.0002	0.0000	0.0000	0.0005	0.0	0.0000	0.0000
	52	0.0244	0.0016	0.0033	0.0507	0.0008	0.0024	0.0071
	53	0.3676	0.0433	0.1139	0.4634	0.0478	0.1228	0.2096
	54	0.5235	0.5152	0.6925	0.4424	0.5912	0.5730	0.5950
	55	0.0795	0.3351	0.1815	0.0442	0.3172	0.2886	0.1832
	56	0.0011	0.1033	0.0090	0.0004	0.0430	0.0145	0.0034
	57	0.0000	0.0016	0.0000	0.0000	0.0002	0.0001	0.0000
	58	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
140	50	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	51	0.0000	0.0	0.0002	0.0000	0.0	0.0	0.0
	52	0.0046	0.0000	0.0141	0.0112	0.0001	0.0002	0.0010
	53	0.1764	0.0051	0.1099	0.2577	0.0113	0.0344	0.0749
	54	0.7920	0.2920	0.5044	0.5848	0.3595	0.4063	0.5165
	55	0.2251	0.4787	0.2765	0.1437	0.4673	0.4956	0.3792
	56	0.0052	0.2204	0.0907	0.0033	0.1600	0.0640	0.0285
	57	0.0000	0.0028	0.0034	0.0000	0.0021	0.0007	0.0002
	58	0.0	0.0000	0.0001	0.0	0.0000	0.0000	0.0000

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
141	51	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	52	0.0006	0.0	0.0003	0.0017	0.0	0.0000	0.0001
	53	0.0560	0.0003	0.0132	0.1010	0.0003	0.0065	0.0178
	54	0.4757	0.0654	0.2318	0.5531	0.1020	0.2008	0.3146
	55	0.4260	0.3722	0.3927	0.3254	0.5227	0.5960	0.5591
	56	0.0397	0.5395	0.3327	0.0193	0.3702	0.1920	0.1069
	57	0.0003	0.0225	0.0274	0.0001	0.0050	0.0059	0.0019
	58	0.0000	0.0002	0.0011	0.0	0.0000	0.0000	0.0000
	59	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
142	52	0.0000	0.0	0.0000	0.0002	0.0	0.0	0.0000
	53	0.0127	0.0000	0.0018	0.0275	0.0	0.0008	0.0010
	54	0.2722	0.0117	0.1055	0.3739	0.0003	0.0683	0.0773
	55	0.5778	0.1892	0.3791	0.5207	0.2598	0.5044	0.5206
	56	0.1326	0.7148	0.4719	0.0773	0.7380	0.3956	0.3738
	57	0.0028	0.0824	0.0399	0.0010	0.0022	0.0320	0.0275
	58	0.0000	0.0020	0.0010	0.0000	0.0	0.0002	0.0002
	59	0.0	0.0000	0.0000	0.0	0.0	0.0000	0.0000
143	52	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	53	0.0019	0.0	0.0001	0.0049	0.0	0.0001	0.0003
	54	0.1047	0.0	0.0216	0.1749	0.0000	0.0139	0.0398
	55	0.5579	0.0110	0.2210	0.5941	0.0588	0.2834	0.4269
	56	0.3140	0.8571	0.6399	0.2189	0.8705	0.5753	0.4767
	57	0.0178	0.1319	0.1112	0.0078	0.0709	0.1261	0.0561
	58	0.0001	0.0001	0.0053	0.0000	0.0001	0.0026	0.0006
	59	0.0	0.0	0.0000	0.0	0.0	0.0000	0.0000
144	53	0.0000	0.0	0.0	0.0006	0.0	0.0000	0.0000
	54	0.0276	0.0000	0.0007	0.0580	0.0000	0.0026	0.0078
	55	0.3823	0.0255	0.0649	0.4815	0.0108	0.1261	0.2189
	56	0.7113	0.4933	0.6884	0.4218	0.6652	0.5753	0.5939
	57	0.0725	0.2782	0.2340	0.0384	0.3182	0.2834	0.1748
	58	0.0004	0.1018	0.0113	0.0003	0.0060	0.0139	0.0049
	59	0.0000	0.0010	0.0000	0.0000	0.0000	0.0001	0.0000
	60	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
145	54	0.0010	0.0	0.0	0.0000	0.0	0.0	0.0000
	55	0.0004	0.0000	0.0000	0.0137	0.0001	0.0005	0.0010
	56	[illegible]	0.0046	0.0000	0.2329	0.0113	0.0357	0.0773
	57	[illegible]	[illegible]	0.3424	0.5792	0.3595	0.4116	0.5206
	58	0.2052	0.4642	0.4278	0.1329	0.4673	0.4911	0.3738
	59	0.0071	0.2806	0.0211	0.0028	0.1600	0.0620	0.0275
	60	0.0000	0.0018	0.0000	0.0000	0.0021	0.0007	0.0002
	61	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0000
146	53	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	54	0.0006	0.0	0.0001	0.0018	0.0000	0.0000	0.0001
	55	0.0560	0.0015	0.0115	0.1029	0.0015	0.0062	0.0171
	56	0.4777	0.0740	0.2802	0.5362	0.1350	0.1964	0.3093
	57	0.4260	0.3596	0.4476	0.3201	0.4520	0.3961	0.5620
	58	0.0357	0.5311	0.2605	0.0185	0.3973	0.1964	0.1099
	59	0.0003	0.0256	0.0091	0.0001	0.0144	0.0062	0.0020
	60	0.0000	0.0004	0.0001	0.0	0.0001	0.0000	0.0000
	61	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
147	54	0.0000	0.0	0.0000	0.0001	0.0	0.0	0.0000
	55	0.0098	0.0000	0.0017	0.0226	0.0001	0.0005	0.0021
	56	0.2423	0.0107	0.0902	0.3469	0.0269	0.0543	0.1130
	57	0.5878	0.1678	0.3759	0.5397	0.2634	0.4724	0.5648
	58	0.1546	0.7078	0.4915	0.0899	0.5400	0.4325	0.3040
	59	0.0038	0.1137	0.0396	0.0013	0.0683	0.0412	0.0164
	60	0.0000	0.0011	0.0004	0.0000	0.0016	0.0003	0.0001
	61	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0
148	54	0.0000	0.0	0.0001	0.0000	0.0	0.0	0.0
	55	0.0013	0.0	0.0030	0.0036	0.0000	0.0000	0.0002
	56	0.0871	0.0011	0.0700	0.1511	0.0040	0.0107	0.0285
	57	0.5348	0.0547	0.2252	0.5879	0.1102	0.2529	0.3792
	58	0.3815	0.6501	0.5063	0.2477	0.6846	0.5868	0.5165
	59	0.0235	0.2640	0.1590	0.0102	0.1889	0.1474	0.0749
	60	0.0001	0.0301	0.0347	0.0000	0.0125	0.0035	0.0010
	61	0.0000	0.0001	0.0010	0.0	0.0000	0.0000	0.0000
	62	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
149	55	0.0001	0.0	0.0000	0.0000	0.0	0.0000	0.0000
	56	0.0209	0.0001	0.0019	0.0012	0.0004	0.0014	0.0049
	57	0.3353	0.0157	0.0785	0.0847	0.0323	0.0927	0.1748
	58	0.5432	0.4144	0.6436	0.5324	0.5299	0.5435	0.5939
	59	0.0951	0.4297	0.3527	0.3577	0.3706	0.3417	0.2189
	60	0.0015	0.1408	0.0225	0.0245	0.0666	0.0218	0.0078
	61	0.0000	0.0014	0.0001	0.0001	0.0004	0.0001	0.0000
	62	0.0	0.0000	0.0	0.0000	0.0000	0.0000	0.0
150	55	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	56	0.0031	0.0000	0.0002	0.0090	0.0000	0.0001	0.0006
	57	0.1470	0.0021	0.0208	0.2331	0.0067	0.0227	0.0561
	58	0.5890	0.1718	0.4446	0.5916	0.2858	0.3471	0.4767
	59	0.2521	0.4470	0.4321	0.1627	0.4856	0.5400	0.4269
	60	0.0107	0.3689	0.1006	0.0042	0.2163	0.0900	0.0398
	61	0.0000	0.0103	0.0009	0.0000	0.0038	0.0014	0.0003
	62	0.0	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
151	55	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	56	0.0014	0.0	0.0000	0.0013	0.0000	0.0000	0.0000
	57	0.0657	0.0002	0.0039	0.0873	0.0009	0.0040	0.0127
	58	0.4464	0.0461	0.2135	0.5361	0.0994	0.1589	0.2728
	59	0.4564	0.5031	0.4923	0.3523	0.4190	0.5908	0.5791
	60	0.0489	0.6062	0.2796	0.0235	0.4596	0.2381	0.1329
	61	0.0005	0.0436	0.0006	0.0001	0.0211	0.0094	0.0028
	62	0.0000	0.0008	0.0000	0.0000	0.0002	0.0000	0.0000
	63	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
152	56	0.0000	0.0	0.0	0.0001	0.0	0.0	0.0000
	57	0.0043	0.0000	0.0004	0.0226	0.0001	0.0005	0.0019
	58	0.0374	0.0085	0.0654	0.3469	0.0228	0.0491	0.1069
	59	0.5890	0.1462	0.3195	0.5397	0.2460	0.4578	0.5591
	60	0.1594	0.7111	0.5204	0.0899	0.6531	0.4478	0.2146
	61	0.0040	0.1278	0.0231	0.0013	0.0764	0.0458	0.0178
	62	0.0000	0.0014	0.0004	0.0000	0.0020	0.0004	0.0001
	63	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
153	56	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	57	0.0013	0.0	0.0000	0.0040	0.0000	0.0000	0.0002
	58	0.0897	0.0011	0.0141	0.1588	0.0030	0.0107	0.0296
	59	0.3394	0.0524	0.2062	0.5905	0.1074	0.2529	0.3845
	60	0.6441	0.4327	0.6705	0.2380	0.6831	0.5866	0.5124
	61	0.3254	0.2771	0.1051	0.0094	0.1927	0.1474	0.0726
	62	0.0001	0.0366	0.0034	0.0000	0.0131	0.0035	0.0009
	63	0.0000	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
	64	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
154	57	0.0001	0.0	0.0000	0.0005	0.0	0.0000	0.0000
	58	0.0244	0.0001	0.0012	0.0525	0.0005	0.0016	0.0056
	59	0.3569	0.0137	0.0829	0.4673	0.0346	0.0982	0.1875
	60	0.6311	0.4144	0.6493	0.4373	0.5408	0.5503	0.5953
	61	0.0345	0.4297	0.2440	0.0427	0.3619	0.3310	0.2031
	62	0.0011	0.1408	0.0207	0.0004	0.0620	0.0201	0.0068
	63	0.0010	0.0014	0.0001	0.0000	0.0004	0.0001	0.0000
	64	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0
155	56	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	57	0.0000	0.0	0.0	0.0127	0.0	0.0	0.0
	58	0.0051	0.0000	0.0003	0.2729	0.0000	0.0002	0.0009
	59	0.1786	0.0027	0.0269	0.5792	0.0084	0.0332	0.0704
	60	0.5953	0.1963	0.4864	0.1329	0.3160	0.4009	0.5082
	61	0.2129	0.4560	0.4049	0.0028	0.4801	0.5000	0.3899
	62	0.0074	0.3367	0.0802	0.0000	0.1927	0.0661	0.0308
	63	0.0000	0.0053	0.0006	0.0	0.0030	0.0008	0.0002
	64	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
156	57	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	58	0.0009	0.0	0.0000	0.0028	0.0000	0.0000	0.0001
	59	0.0771	0.0004	0.0071	0.1329	0.0017	0.0075	0.0218
	60	0.3113	0.0715	0.2895	0.5792	0.1430	0.2144	0.3414
	61	0.3327	0.3344	0.4943	0.2729	0.4575	0.5951	0.5430
	62	0.0796	0.2438	0.1084	0.0127	0.3847	0.1792	0.0936
	63	0.0002	0.0296	0.0037	0.0000	0.0133	0.0051	0.0014
	64	0.0000	0.0004	0.0000	0.0	0.0001	0.0000	0.0000
	65	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
157	58	0.0001	0.0	0.0000	0.0004	0.0	0.0000	0.0000
	59	0.0209	0.0000	0.0012	0.0458	0.0002	0.0012	0.0047
	60	0.3353	0.0174	0.1174	0.4475	0.0430	0.0848	0.1707
	61	0.3453	0.2029	0.4494	0.4575	0.3172	0.5327	0.5932
	62	0.0951	0.6904	0.4139	0.0490	0.3912	0.3579	0.2236
	63	0.0015	0.0864	0.0172	0.0005	0.0478	0.0245	0.0082
	64	0.0000	0.0029	0.0001	0.0000	0.0008	0.0001	0.0000
	65	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0
158	58	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	59	0.0040	0.0000	0.0001	0.0107	0.0000	0.0001	0.0006
	60	0.1584	0.0029	0.0310	0.2527	0.0087	0.0227	0.0580
	61	0.5890	0.0864	0.2887	0.5864	0.1597	0.3471	0.4814
	62	0.2374	0.6904	0.6157	0.1474	0.6924	0.5400	0.4217
	63	0.0093	0.2929	0.0625	0.0035	0.1335	0.0900	0.0384
	64	0.0000	0.0174	0.0013	0.0000	0.0060	0.0014	0.0003
	65	0.0	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
159	58	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	59	0.0009	0.0	0.0000	0.0017	0.0000	0.0000	0.0001
	60	0.0504	0.0003	0.0056	0.1010	0.0013	0.0042	0.0139
	61	0.4613	0.0287	0.1341	0.5531	0.0606	0.1628	0.2831
	62	0.4414	0.5266	0.6926	0.3254	0.6253	0.5919	0.5748
	63	0.0441	0.3667	0.1679	0.0193	0.2812	0.2333	0.1260
	64	0.0004	0.0793	0.0090	0.0001	0.0315	0.0090	0.0026
	65	0.0000	0.0005	0.0000	0.0	0.0001	0.0000	0.0000
	66	0.0	0.0000	0.0	0.0	0.0000	0.0	0.0
160	59	0.0000	0.0	0.0	0.0002	0.0	0.0	0.0000
	60	0.0116	0.0000	0.0000	0.0275	0.0001	0.0005	0.0022
	61	0.2671	0.0052	0.0006	0.3739	0.0162	0.0525	0.1162
	62	0.5817	0.2745	0.6425	0.5207	0.4162	0.4676	0.5674
	63	0.1397	0.4650	0.2425	0.0773	0.4430	0.4376	0.2988
	64	0.0051	0.2509	0.0057	0.0010	0.1235	0.0427	0.0157
	65	0.0000	0.0044	0.0000	0.0000	0.0013	0.0004	0.0001
	66	0.0	0.0000	0.0	0.0	0.0000	0.0000	0.0

TABLE 16. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR FAST FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
151	50	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0
	60	0.0018	0.0	0.0001	0.0054	0.0000	0.0000	0.0002
	61	0.1027	0.0007	0.0110	0.1833	0.0027	0.0117	0.0132
	62	0.5849	0.0938	0.3458	0.5951	0.1830	0.2619	0.4006
	63	0.2193	0.2803	0.4792	0.2097	0.4770	0.5834	0.4996
	64	0.0195	0.4967	0.1610	0.0071	0.2283	0.1401	0.0661
	65	0.0001	0.0273	0.0022	0.0000	0.0091	0.0031	0.0008
	66	0.0	0.0001	0.0000	0.0	0.0000	0.0000	0.0000
	67	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION.

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
72	26	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	27	0.0	0.0107	0.0123	0.0083	0.0	0.0	0.0
	28	0.0	0.2335	0.2694	0.2244	0.0	0.0	0.0
	29	0.0	0.5892	0.5847	0.5913	0.0	0.0	0.0
	30	0.0	0.1461	0.1372	0.1690	0.0	0.0	0.0
	31	0.0	0.0035	0.0030	0.0046	0.0	0.0	0.0
	32	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
73	26	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	27	0.0	0.0016	0.0019	0.0012	0.0	0.0	0.0
	28	0.0	0.0986	0.1076	0.0852	0.0	0.0	0.0
	29	0.0	0.5526	0.5626	0.5319	0.0	0.0	0.0
	30	0.0	0.3324	0.3166	0.3550	0.0	0.0	0.0
	31	0.0	0.0202	0.0179	0.0241	0.0	0.0	0.0
	32	0.0	0.0001	0.0001	0.0001	0.0	0.0	0.0
	33	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
74	27	0.0	0.0001	0.0002	0.0001	0.0	0.0	0.0
	28	0.0	0.0256	0.0298	0.0220	0.0	0.0	0.0
	29	0.0	0.3649	0.3865	0.3421	0.0	0.0	0.0
	30	0.0	0.5312	0.5156	0.5405	0.0	0.0	0.0
	31	0.0	0.0826	0.0731	0.0915	0.0	0.0	0.0
	32	0.0	0.0011	0.0009	0.0014	0.0	0.0	0.0
	33	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
75	27	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	28	0.0	0.0047	0.0057	0.0041	0.0	0.0	0.0
	29	0.0	0.1716	0.1886	0.1595	0.0	0.0	0.0
	30	0.0	0.5962	0.5990	0.5890	0.0	0.0	0.0
	31	0.0	0.2247	0.2064	0.2358	0.0	0.0	0.0
	32	0.0	0.0082	0.0068	0.0092	0.0	0.0	0.0
	33	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
76	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	28	0.0	0.0006	0.0007	0.0005	0.0	0.0	0.0
	29	0.0	0.0564	0.0644	0.0511	0.0	0.0	0.0
	30	0.0	0.4791	0.4982	0.4625	0.0	0.0	0.0
	31	0.0	0.4291	0.4084	0.4396	0.0	0.0	0.0
	32	0.0	0.0400	0.0346	0.0436	0.0	0.0	0.0
	33	0.0	0.0003	0.0002	0.0004	0.0	0.0	0.0
	34	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
77	28	0.0	0.0000	0.0001	0.0000	0.0	0.0	0.0
	29	0.0	0.0045	0.0145	0.0113	0.0	0.0	0.0
	30	0.0	0.1675	0.2901	0.2584	0.0	0.0	0.0
	31	0.0	0.5954	0.5760	0.5825	0.0	0.0	0.0
	32	0.0	0.2295	0.1235	0.1421	0.0	0.0	0.0
	33	0.0	0.0086	0.0024	0.0032	0.0	0.0	0.0
	34	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
78	28	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	29	0.0	0.0005	0.0021	0.0015	0.0	0.0	0.0
	30	0.0	0.0510	0.1061	0.0959	0.0	0.0	0.0
	31	0.0	0.4646	0.5532	0.5460	0.0	0.0	0.0
	32	0.0	0.4446	0.3229	0.3335	0.0	0.0	0.0
	33	0.0	0.0444	0.0202	0.0206	0.0	0.0	0.0
	34	0.0	0.0004	0.0001	0.0001	0.0	0.0	0.0
	35	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
79	27	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	28	0.0	0.0	0.0017	0.0	0.0	0.0	0.0
	29	0.0	0.0000	0.0216	0.0001	0.0	0.0	0.0
	30	0.0	0.0090	0.1210	0.0228	0.0	0.0	0.0
	31	0.0	0.2343	0.3033	0.3475	0.0	0.0	0.0
	32	0.0	0.5944	0.3418	0.5370	0.0	0.0	0.0
	33	0.0	0.1635	0.1734	0.0889	0.0	0.0	0.0
	34	0.0	0.0042	0.0395	0.0013	0.0	0.0	0.0
	35	0.0	0.0000	0.0040	0.0000	0.0	0.0	0.0
	36	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
80	29	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	30	0.0	0.0013	0.0052	0.0041	0.0	0.0	0.0
	31	0.0	0.0877	0.1801	0.1595	0.0	0.0	0.0
	32	0.0	0.5387	0.5982	0.5890	0.0	0.0	0.0
	33	0.0	0.3540	0.2156	0.2358	0.0	0.0	0.0
	34	0.0	0.0237	0.0075	0.0092	0.0	0.0	0.0
	35	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
	36	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
81	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.0	0.0001	0.0006	0.0005	0.0	0.0	0.0
	31	0.0	0.0210	0.0565	0.0494	0.0	0.0	0.0
	32	0.0	0.3378	0.4797	0.4576	0.0	0.0	0.0
	33	0.0	0.5493	0.4255	0.4446	0.0	0.0	0.0
	34	0.0	0.0958	0.0400	0.0452	0.0	0.0	0.0
	35	0.0	0.0015	0.0003	0.0004	0.0	0.0	0.0
	36	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
82	30	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	31	0.0	0.0007	0.0123	0.0103	0.0	0.0	0.0
	32	0.0	0.1083	0.2694	0.2485	0.0	0.0	0.0
	33	0.0	0.6612	0.5847	0.5857	0.0	0.0	0.0
	34	0.0	0.2317	0.1372	0.1495	0.0	0.0	0.0
	35	0.0	0.0036	0.0030	0.0036	0.0	0.0	0.0
	36	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	30	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	31	0.0	0.0003	0.0001	0.0014	0.0	0.0	0.0
	32	0.0	0.0414	0.0481	0.0931	0.0	0.0	0.0
	33	0.0	0.4943	0.6673	0.5426	0.0	0.0	0.0
	34	0.0	0.4744	0.2884	0.3389	0.0	0.0	0.0
	35	0.0	0.0546	0.0028	0.0214	0.0	0.0	0.0
	36	0.0	0.0005	0.0000	0.0001	0.0	0.0	0.0
	37	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
84	30	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	31	0.0	0.0000	0.0032	0.0001	0.0	0.0	0.0
	32	0.0	0.0079	0.0735	0.0238	0.0	0.0	0.0
	33	0.0	0.2200	0.3742	0.3529	0.0	0.0	0.0
	34	0.0	0.5970	0.4333	0.5334	0.0	0.0	0.0
	35	0.0	0.1757	0.1152	0.0862	0.0	0.0	0.0
	36	0.0	0.0045	0.0068	0.0013	0.0	0.0	0.0
	37	0.0	0.0000	0.0001	0.0000	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
85	31	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	32	0.0	0.0009	0.0042	0.0039	0.0	0.0	0.0
	33	0.0	0.3730	0.1637	0.1556	0.0	0.0	0.0
	34	0.0	0.5150	0.5951	0.5878	0.0	0.0	0.0
	35	0.0	0.3865	0.2345	0.2406	0.0	0.0	0.0
	36	0.0	0.0298	0.0090	0.0096	0.0	0.0	0.0
	37	0.0	0.0002	0.0000	0.0000	0.0	0.0	0.0
	38	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
86	31	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	32	0.0	0.0001	0.0027	0.0004	0.0	0.0	0.0
	33	0.0	0.0158	0.0802	0.0445	0.0	0.0	0.0
	34	0.0	0.3003	0.4203	0.4426	0.0	0.0	0.0
	35	0.0	0.5703	0.4203	0.4595	0.0	0.0	0.0
	36	0.0	0.1165	0.0802	0.0501	0.0	0.0	0.0
	37	0.0	0.0022	0.0027	0.0005	0.0	0.0	0.0
	38	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
87	31	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	32	0.0	0.0000	0.0007	0.0000	0.0	0.0	0.0
	33	0.0	0.0021	0.0474	0.0086	0.0	0.0	0.0
	34	0.0	0.1136	0.3946	0.2291	0.0	0.0	0.0
	35	0.0	0.5677	0.4770	0.5905	0.0	0.0	0.0
	36	0.0	0.3056	0.0849	0.1650	0.0	0.0	0.0
	37	0.0	0.0165	0.0020	0.0044	0.0	0.0	0.0
	38	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
88	30	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	31	0.0	0.0	0.0006	0.0	0.0	0.0	0.0
	32	0.0	0.0	0.0082	0.0000	0.0	0.0	0.0
	33	0.0	0.0001	0.0531	0.0010	0.0	0.0	0.0
	34	0.0	0.0246	0.1790	0.0778	0.0	0.0	0.0
	35	0.0	0.3594	0.3124	0.5204	0.0	0.0	0.0
	36	0.0	0.5350	0.2832	0.3711	0.0	0.0	0.0
	37	0.0	0.0851	0.1332	0.0271	0.0	0.0	0.0
	38	0.0	0.0012	0.0325	0.0002	0.0	0.0	0.0
	39	0.0	0.0000	0.0041	0.0000	0.0	0.0	0.0
	40	0.0	0.0	0.0003	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
89	33	0.0	0.0	0.0	0.0001	0.0	0.0	0.0
	34	0.0	0.0000	0.0023	0.0180	0.0	0.0	0.0
	35	0.0	0.0812	0.2846	0.3194	0.0	0.0	0.0
	36	0.0	0.7879	0.6753	0.5567	0.0	0.0	0.0
	37	0.0	0.1362	0.0444	0.1057	0.0	0.0	0.0
	38	0.0	0.0002	0.0000	0.0018	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
90	33	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	34	0.0	0.0005	0.0056	0.0030	0.0	0.0	0.0
	35	0.0	0.0527	0.2225	0.1371	0.0	0.0	0.0
	36	0.0	0.4695	0.6273	0.5800	0.0	0.0	0.0
	37	0.0	0.4394	0.1487	0.2655	0.0	0.0	0.0
	38	0.0	0.0429	0.0024	0.0120	0.0	0.0	0.0
	39	0.0	0.0004	0.0000	0.0000	0.0	0.0	0.0
	40	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
91	33	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
	34	0.0	0.0024	0.0010	0.0003	0.0	0.0	0.0
	35	0.0	0.0493	0.0371	0.0401	0.0	0.0	0.0
	36	0.0	0.2799	0.2866	0.4273	0.0	0.0	0.0
	37	0.0	0.4460	0.4844	0.4740	0.0	0.0	0.0
	38	0.0	0.2016	0.1824	0.0554	0.0	0.0	0.0
	39	0.0	0.0254	0.0148	0.0006	0.0	0.0	0.0
	40	0.0	0.0009	0.0002	0.0000	0.0	0.0	0.0
	41	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
92	34	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	35	0.0	0.0057	0.0080	0.0075	0.0	0.0	0.0
	36	0.0	0.1223	0.2597	0.2150	0.0	0.0	0.0
	37	0.0	0.4739	0.6192	0.5927	0.0	0.0	0.0
	38	0.0	0.3526	0.1221	0.1772	0.0	0.0	0.0
	39	0.0	0.0497	0.0016	0.0050	0.0	0.0	0.0
	40	0.0	0.0012	0.0000	0.0000	0.0	0.0	0.0
	41	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
93	34	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	35	0.0	0.0001	0.0009	0.0010	0.0	0.0	0.0
	36	0.0	0.0237	0.0853	0.0778	0.0	0.0	0.0
	37	0.0	0.3540	0.5684	0.5204	0.0	0.0	0.0
	38	0.0	0.5387	0.3358	0.3711	0.0	0.0	0.0
	39	0.0	0.0877	0.0162	0.0271	0.0	0.0	0.0
	40	0.0	0.0013	0.0000	0.0002	0.0	0.0	0.0
	41	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
94	34	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	35	0.0	0.0000	0.0010	0.0001	0.0	0.0	0.0
	36	0.0	0.0038	0.0314	0.0187	0.0	0.0	0.0
	37	0.0	0.1557	0.2437	0.3207	0.0	0.0	0.0
	38	0.0	0.5921	0.4710	0.5536	0.0	0.0	0.0
	39	0.0	0.2440	0.2306	0.1028	0.0	0.0	0.0
	40	0.0	0.0098	0.0281	0.0017	0.0	0.0	0.0
	41	0.0	0.0000	0.0008	0.0000	0.0	0.0	0.0
	42	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
95	35	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	36	0.0	0.0010	0.0032	0.0032	0.0	0.0	0.0
	37	0.0	0.0739	0.1699	0.1407	0.0	0.0	0.0
	38	0.0	0.5062	0.6315	0.5818	0.0	0.0	0.0
	39	0.0	0.3910	0.1976	0.2604	0.0	0.0	0.0
	40	0.0	0.0331	0.0044	0.0115	0.0	0.0	0.0
	41	0.0	0.0003	0.0000	0.0000	0.0	0.0	0.0
	42	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
96	35	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
	36	0.0	0.0009	0.0036	0.0003	0.0	0.0	0.0
	37	0.0	0.0338	0.0792	0.0415	0.0	0.0	0.0
	38	0.0	0.2687	0.3840	0.4324	0.0	0.0	0.0
	39	0.0	0.4830	0.4254	0.4692	0.0	0.0	0.0
	40	0.0	0.2002	0.1082	0.0536	0.0	0.0	0.0
	41	0.0	0.0186	0.0061	0.0005	0.0	0.0	0.0
	42	0.0	0.0004	0.0001	0.0000	0.0	0.0	0.0
	43	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
97	36	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	37	0.0	0.0003	0.0121	0.0083	0.0	0.0	0.0
	38	0.0	0.0620	0.2777	0.2244	0.0	0.0	0.0
	39	0.0	0.5910	0.5878	0.5913	0.0	0.0	0.0
	40	0.0	0.3416	0.1266	0.1690	0.0	0.0	0.0
	41	0.0	0.0106	0.0023	0.0046	0.0	0.0	0.0
	42	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
98	36	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	37	0.0	0.0001	0.0010	0.0015	0.0	0.0	0.0
	38	0.0	0.0237	0.0154	0.0959	0.0	0.0	0.0
	39	0.0	0.3540	0.5168	0.5460	0.0	0.0	0.0
	40	0.0	0.5367	0.3815	0.3335	0.0	0.0	0.0
	41	0.0	0.0877	0.0267	0.0206	0.0	0.0	0.0
	42	0.0	0.0013	0.0002	0.0001	0.0	0.0	0.0
	43	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
99	34	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0020	0.0	0.0	0.0	0.0
	37	0.0	0.0000	0.0218	0.0001	0.0	0.0	0.0
	38	0.0	0.0042	0.1133	0.0238	0.0	0.0	0.0
	39	0.0	0.1635	0.2815	0.3929	0.0	0.0	0.0
	40	0.0	0.5944	0.3357	0.5334	0.0	0.0	0.0
	41	0.0	0.2343	0.1922	0.0862	0.0	0.0	0.0
	42	0.0	0.0090	0.0527	0.0013	0.0	0.0	0.0
	43	0.0	0.0000	0.0069	0.0000	0.0	0.0	0.0
	44	0.0	0.0	0.0004	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
100	37	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	38	0.0	0.0006	0.0037	0.0049	0.0	0.0	0.0
	39	0.0	0.0564	0.1520	0.1756	0.0	0.0	0.0
	40	0.0	0.4791	0.5914	0.5925	0.0	0.0	0.0
	41	0.0	0.4291	0.2492	0.2169	0.0	0.0	0.0
	42	0.0	0.0400	0.0103	0.0077	0.0	0.0	0.0
	43	0.0	0.0003	0.0000	0.0000	0.0	0.0	0.0
	44	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
101	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0001	0.0005	0.0007	0.0	0.0	0.0
	39	0.0	0.0139	0.0511	0.0624	0.0	0.0	0.0
	40	0.0	0.2845	0.4651	0.4906	0.0	0.0	0.0
	41	0.0	0.5777	0.4450	0.4085	0.0	0.0	0.0
	42	0.0	0.1267	0.0445	0.0352	0.0	0.0	0.0
	43	0.0	0.0026	0.0004	0.0003	0.0	0.0	0.0
	44	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
102	38	0.0	0.0000	0.0000	0.0005	0.0	0.0	0.0
	39	0.0	0.0023	0.0117	0.0494	0.0	0.0	0.0
	40	0.0	0.1200	0.2643	0.4576	0.0	0.0	0.0
	41	0.0	0.5729	0.5865	0.4446	0.0	0.0	0.0
	42	0.0	0.2950	0.1408	0.0452	0.0	0.0	0.0
	43	0.0	0.0151	0.0032	0.0004	0.0	0.0	0.0
	44	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
103	38	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	39	0.0	0.0003	0.0	0.0029	0.0	0.0	0.0
	40	0.0	0.0359	0.0214	0.1336	0.0	0.0	0.0
	41	0.0	0.4133	0.7570	0.5781	0.0	0.0	0.0
	42	0.0	0.4931	0.2279	0.2705	0.0	0.0	0.0
	43	0.0	0.0622	0.0002	0.0125	0.0	0.0	0.0
	44	0.0	0.0007	0.0	0.0000	0.0	0.0	0.0
	45	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
104	39	0.0	0.0000	0.0002	0.0004	0.0	0.0	0.0
	40	0.0	0.0075	0.0321	0.0430	0.0	0.0	0.0
	41	0.0	0.2153	0.3977	0.4375	0.0	0.0	0.0
	42	0.0	0.5976	0.5071	0.4644	0.0	0.0	0.0
	43	0.0	0.1799	0.0686	0.0518	0.0	0.0	0.0
	44	0.0	0.0052	0.0008	0.0005	0.0	0.0	0.0
	45	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
105	39	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	40	0.0	0.0008	0.0052	0.0035	0.0	0.0	0.0
	41	0.0	0.0686	0.1801	0.2150	0.0	0.0	0.0
	42	0.0	0.5065	0.5982	0.5527	0.0	0.0	0.0
	43	0.0	0.3973	0.2156	0.1772	0.0	0.0	0.0
	44	0.0	0.0321	0.0075	0.0050	0.0	0.0	0.0
	45	0.0	0.0002	0.0000	0.0000	0.0	0.0	0.0
	46	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
106	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0001	0.0005	0.0008	0.0	0.0	0.0
	41	0.0	0.0139	0.0511	0.0687	0.0	0.0	0.0
	42	0.0	0.2845	0.4[illegible]1	0.5038	0.0	0.0	0.0
	43	0.0	0.5777	0.4450	0.3926	0.0	0.0	0.0
	44	0.0	0.1267	0.0445	0.0315	0.0	0.0	0.0
	45	0.0	0.0026	0.0004	0.0002	0.0	0.0	0.0
	46	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	40	0.0	0.0000	0.0000	0.0001	0.0	0.0	0.0
	41	0.0	0.0016	0.0094	0.0140	0.0	0.0	0.0
	42	0.0	0.0986	0.2394	0.2839	0.0	0.0	0.0
	43	0.0	0.3926	0.5940	0.5725	0.0	0.0	0.0
	44	0.0	0.3324	0.1597	0.1247	0.0	0.0	0.0
	45	0.0	0.0202	0.0040	0.0025	0.0	0.0	0.0
	46	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
	47	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
108	41	0.0	0.0000	0.0002	0.0004	0.0	0.0	0.0
	42	0.0	0.0072	0.0321	0.0461	0.0	0.0	0.0
	43	0.0	0.2107	0.3977	0.4476	0.0	0.0	0.0
	44	0.0	0.5980	0.5071	0.4546	0.0	0.0	0.0
	45	0.0	0.1841	0.0686	0.0484	0.0	0.0	0.0
	46	0.0	0.0054	0.0008	0.0004	0.0	0.0	0.0
	47	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
109	41	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	42	0.0	0.0006	0.0042	0.0069	0.0	0.0	0.0
	43	0.0	0.0564	0.1637	0.2059	0.0	0.0	0.0
	44	0.0	0.4791	0.5951	0.5936	0.0	0.0	0.0
	45	0.0	0.4291	0.2345	0.1857	0.0	0.0	0.0
	46	0.0	0.0400	0.0050	0.0055	0.0	0.0	0.0
	47	0.0	0.0003	0.0000	0.0000	0.0	0.0	0.0
	48	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
110	41	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	42	0.0	0.0001	0.0006	0.0012	0.0	0.0	0.0
	43	0.0	0.0139	0.0584	0.0827	0.0	0.0	0.0
	44	0.0	0.2845	0.4844	0.5281	0.0	0.0	0.0
	45	0.0	0.5777	0.4243	0.3604	0.0	0.0	0.0
	46	0.0	0.1267	0.0386	0.0251	0.0	0.0	0.0
	47	0.0	0.0026	0.0003	0.0001	0.0	0.0	0.0
	48	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
111	42	0.0	0.0000	0.0001	0.0002	0.0	0.0	0.0
	43	0.0	0.0027	0.0158	0.0257	0.0	0.0	0.0
	44	0.0	0.1301	0.3006	0.3636	0.0	0.0	0.0
	45	0.0	0.5799	0.5710	0.5258	0.0	0.0	0.0
	46	0.0	0.2794	0.1169	0.0812	0.0	0.0	0.0
	47	0.0	0.0133	0.0022	0.0011	0.0	0.0	0.0
	48	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
112	42	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	43	0.0	0.0	0.0023	0.0063	0.0	0.0	0.0
	44	0.0	0.0003	0.1370	0.1970	0.0	0.0	0.0
	45	0.0	0.5025	0.6132	0.5939	0.0	0.0	0.0
	46	0.0	0.5025	0.2464	0.1543	0.0	0.0	0.0
	47	0.0	0.0003	0.0078	0.0061	0.0	0.0	0.0
	48	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	42	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	43	0.0	0.0000	0.0005	0.0012	0.0	0.0	0.0
	44	0.0	0.0128	0.0546	0.0827	0.0	0.0	0.0
	45	0.0	0.2742	0.4749	0.5281	0.0	0.0	0.0
	46	0.0	0.5820	0.4348	0.3604	0.0	0.0	0.0
	47	0.0	0.1336	0.0415	0.0251	0.0	0.0	0.0
	48	0.0	0.0028	0.0003	0.0001	0.0	0.0	0.0
	49	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
114	43	0.0	0.0000	0.0001	0.0002	0.0	0.0	0.0
	44	0.0	0.0024	0.0132	0.0257	0.0	0.0	0.0
	45	0.0	0.1233	0.2953	0.3636	0.0	0.0	0.0
	46	0.0	0.5754	0.5735	0.5258	0.0	0.0	0.0
	47	0.0	0.2898	0.1202	0.0812	0.0	0.0	0.0
	48	0.0	0.0145	0.0023	0.0011	0.0	0.0	0.0
	49	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
115	43	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	44	0.0	0.0003	0.0	0.0092	0.0	0.0	0.0
	45	0.0	0.0372	0.0059	0.1798	0.0	0.0	0.0
	46	0.0	0.4186	0.8819	0.5930	0.0	0.0	0.0
	47	0.0	0.4885	0.1187	0.2123	0.0	0.0	0.0
	48	0.0	0.0603	0.0006	0.0073	0.0	0.0	0.0
	49	0.0	0.0007	0.0	0.0000	0.0	0.0	0.0
	50	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
116	43	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	44	0.0	0.0000	0.0003	0.0011	0.0	0.0	0.0
	45	0.0	0.0103	0.0400	0.0802	0.0	0.0	0.0
	46	0.0	0.2489	0.4295	0.5243	0.0	0.0	0.0
	47	0.0	0.5907	0.4757	0.3658	0.0	0.0	0.0
	48	0.0	0.1518	0.0565	0.0261	0.0	0.0	0.0
	49	0.0	0.0037	0.0006	0.0002	0.0	0.0	0.0
	50	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
117	43	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	44	0.0	0.0000	0.0007	0.0002	0.0	0.0	0.0
	45	0.0	0.0027	0.1060	0.0277	0.0	0.0	0.0
	46	0.0	0.1301	0.4802	0.3744	0.0	0.0	0.0
	47	0.0	0.5799	0.3686	0.5180	0.0	0.0	0.0
	48	0.0	0.2754	0.0472	0.0764	0.0	0.0	0.0
	49	0.0	0.0133	0.0009	0.0010	0.0	0.0	0.0
	50	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
118	43	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	44	0.0	0.0	0.0001	0.0057	0.0	0.0	0.0
	45	0.0	0.0006	0.0135	0.1883	0.0	0.0	0.0
	46	0.0	0.0564	0.2714	0.5937	0.0	0.0	0.0
	47	0.0	0.4791	0.5774	0.2032	0.0	0.0	0.0
	48	0.0	0.4251	0.1408	0.0067	0.0	0.0	0.0
	49	0.0	0.0400	0.0034	0.0000	0.0	0.0	0.0
	50	0.0	[illegible]	0.0000	0.0	0.0	0.0	0.0
	51	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
119	44	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	45	0.0	0.0001	0.0011	0.0025	0.0	0.0	0.0
	46	0.0	0.0228	0.0802	0.1233	0.0	0.0	0.0
	47	0.0	0.3486	0.5278	0.5716	0.0	0.0	0.0
	48	0.0	0.5423	0.3707	0.2859	0.0	0.0	0.0
	49	0.0	0.0904	0.0266	0.0142	0.0	0.0	0.0
	50	0.0	0.0014	0.0002	0.0001	0.0	0.0	0.0
	51	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
120	45	0.0	0.0000	0.0002	0.0006	0.0	0.0	0.0
	46	0.0	0.0079	0.0334	0.0584	0.0	0.0	0.0
	47	0.0	0.2200	0.4031	0.4815	0.0	0.0	0.0
	48	0.0	0.5970	0.5027	0.4190	0.0	0.0	0.0
	49	0.0	0.1757	0.0665	0.0378	0.0	0.0	0.0
	50	0.0	0.0049	0.0008	0.0003	0.0	0.0	0.0
	51	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
121	44	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	45	0.0	0.0000	0.0015	0.0002	0.0	0.0	0.0
	46	0.0	0.0021	0.0422	0.0257	0.0	0.0	0.0
	47	0.0	0.1136	0.2803	0.3636	0.0	0.0	0.0
	48	0.0	0.5677	0.4657	0.5258	0.0	0.0	0.0
	49	0.0	0.3056	0.1960	0.0812	0.0	0.0	0.0
	50	0.0	0.0165	0.0204	0.0011	0.0	0.0	0.0
	51	0.0	0.0001	0.0005	0.0000	0.0	0.0	0.0
	52	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
122	45	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	46	0.0	0.0005	0.0037	0.0090	0.0	0.0	0.0
	47	0.0	0.0546	0.1520	0.2339	0.0	0.0	0.0
	48	0.0	0.4744	0.5914	0.5894	0.0	0.0	0.0
	49	0.0	0.4343	0.2492	0.1611	0.0	0.0	0.0
	50	0.0	0.0414	0.0103	0.0041	0.0	0.0	0.0
	51	0.0	0.0003	0.0000	0.0000	0.0	0.0	0.0
	52	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
123	45	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	46	0.0	0.0001	0.0010	0.0035	0.0	0.0	0.0
	47	0.0	0.0256	0.0778	0.1480	0.0	0.0	0.0
	48	0.0	0.3649	0.5238	0.5851	0.0	0.0	0.0
	49	0.0	0.5312	0.3761	0.2504	0.0	0.0	0.0
	50	0.0	0.0826	0.0277	0.0105	0.0	0.0	0.0
	51	0.0	0.0011	0.0002	0.0000	0.0	0.0	0.0
	52	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
124	45	0.0	0.0	0.0001	0.0000	0.0	0.0	0.0
	46	0.0	0.0000	0.0054	0.0012	0.0	0.0	0.0
	47	0.0	0.0098	0.0904	0.0827	0.0	0.0	0.0
	48	0.0	0.2440	0.3776	0.5281	0.0	0.0	0.0
	49	0.0	0.5921	0.4093	0.3604	0.0	0.0	0.0
	50	0.0	0.1557	0.1154	0.0251	0.0	0.0	0.0
	51	0.0	0.0038	0.0002	0.0001	0.0	0.0	0.0
	52	0.0	0.0000	0.0001	0.0000	0.0	0.0	0.0
	53	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
125	46	0.0	0.0000	0.0001	0.0003	0.0	0.0	0.0
	47	0.0	0.0031	0.0152	0.0401	0.0	0.0	0.0
	48	0.0	0.1407	0.2953	0.4273	0.0	0.0	0.0
	49	0.0	0.5859	0.5735	0.4740	0.0	0.0	0.0
	50	0.0	0.2640	0.1202	0.0554	0.0	0.0	0.0
	51	0.0	0.0117	0.0023	0.0006	0.0	0.0	0.0
	52	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
126	45	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0030	0.0001	0.0	0.0	0.0
	47	0.0	0.0008	0.0450	0.0159	0.0	0.0	0.0
	48	0.0	0.0644	0.2308	0.2995	0.0	0.0	0.0
	49	0.0	0.5021	0.4113	0.5651	0.0	0.0	0.0
	50	0.0	0.4026	0.2564	0.1149	0.0	0.0	0.0
	51	0.0	0.0333	0.0556	0.0021	0.0	0.0	0.0
	52	0.0	0.0002	0.0041	0.0000	0.0	0.0	0.0
	53	0.0	0.0000	0.0001	0.0	0.0	0.0	0.0
	54	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
127	46	0.0	0.0	0.0001	0.0000	0.0	0.0	0.0
	47	0.0	0.0001	0.0075	0.0052	0.0	0.0	0.0
	48	0.0	0.0296	0.1330	0.1798	0.0	0.0	0.0
	49	0.0	0.3643	0.4630	0.5930	0.0	0.0	0.0
	50	0.0	0.8312	0.3460	0.2123	0.0	0.0	0.0
	51	0.0	0.0326	0.0549	0.0073	0.0	0.0	0.0
	52	0.0	0.0011	0.0013	0.0000	0.0	0.0	0.0
	53	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
128	46	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
	47	0.0	0.0012	0.0	0.0011	0.0	0.0	0.0
	48	0.0	0.0357	0.0	0.0802	0.0	0.0	0.0
	49	0.0	0.2539	0.0094	0.5243	0.0	0.0	0.0
	50	0.0	0.4647	0.7172	0.3658	0.0	0.0	0.0
	51	0.0	0.2219	0.2798	0.0261	0.0	0.0	0.0
	52	0.0	0.0272	0.0002	0.0002	0.0	0.0	0.0
	53	0.0	0.0008	0.0	0.0000	0.0	0.0	0.0
	54	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
129	47	0.0	0.0000	0.0	0.0001	0.0	0.0	0.0
	48	0.0	0.0010	0.0002	0.0211	0.0	0.0	0.0
	49	0.0	0.0777	0.1175	0.3367	0.0	0.0	0.0
	50	0.0	0.5233	0.7712	0.5439	0.0	0.0	0.0
	51	0.0	0.3757	0.1175	0.0942	0.0	0.0	0.0
	52	0.0	0.0276	0.0002	0.0015	0.0	0.0	0.0
	53	0.0	0.0002	0.0	0.0000	0.0	0.0	0.0
	54	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
130	47	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
	48	0.0	0.0056	0.0015	0.0035	0.0	0.0	0.0
	49	0.0	0.0748	0.0752	0.1480	0.0	0.0	0.0
	50	0.0	0.3110	0.4697	0.5851	0.0	0.0	0.0
	51	0.0	0.4132	0.4099	0.2504	0.0	0.0	0.0
	52	0.0	0.1760	0.0455	0.0105	0.0	0.0	0.0
	53	0.0	0.0238	0.0007	0.0000	0.0	0.0	0.0
	54	0.0	0.0010	0.0000	0.0	0.0	0.0	0.0
	55	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
131	48	0.0	0.0000	0.0001	0.0004	0.0	0.0	0.0
	49	0.0	0.0027	0.0193	0.0430	0.0	0.0	0.0
	50	0.0	0.1301	0.3481	0.4375	0.0	0.0	0.0
	51	0.0	0.5799	0.5546	0.4644	0.0	0.0	0.0
	52	0.0	0.2794	0.0835	0.0518	0.0	0.0	0.0
	53	0.0	0.0133	0.0010	0.0005	0.0	0.0	0.0
	54	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
132	48	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	49	0.0	0.0002	0.0062	0.0075	0.0	0.0	0.0
	50	0.0	0.0253	0.2141	0.2150	0.0	0.0	0.0
	51	0.0	0.3244	0.6136	0.5927	0.0	0.0	0.0
	52	0.0	0.5342	0.1688	0.1772	0.0	0.0	0.0
	53	0.0	0.1181	0.0038	0.0050	0.0	0.0	0.0
	54	0.0	0.0031	0.0000	0.0000	0.0	0.0	0.0
	55	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
133	49	0.0	0.0	0.0000	0.0007	0.0	0.0	0.0
	50	0.0	0.0003	0.0109	0.0644	0.0	0.0	0.0
	51	0.0	0.1079	0.4244	0.4951	0.0	0.0	0.0
	52	0.0	0.7213	0.5460	0.4032	0.0	0.0	0.0
	53	0.0	0.1750	0.0253	0.0339	0.0	0.0	0.0
	54	0.0	0.0005	0.0000	0.0002	0.0	0.0	0.0
	55	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
134	48	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0020	0.0000	0.0	0.0	0.0
	50	0.0	0.0003	0.0369	0.0113	0.0	0.0	0.0
	51	0.0	0.0414	0.2188	0.2584	0.0	0.0	0.0
	52	0.0	0.4343	0.4224	0.5825	0.0	0.0	0.0
	53	0.0	0.4744	0.2675	0.1421	0.0	0.0	0.0
	54	0.0	0.0546	0.0553	0.0032	0.0	0.0	0.0
	55	0.0	0.0005	0.0037	0.0000	0.0	0.0	0.0
	56	0.0	0.0000	0.0001	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
135	49	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	50	0.0	0.0000	0.0000	0.0013	0.0	0.0	0.0
	51	0.0	0.0082	0.0109	0.0878	0.0	0.0	0.0
	52	0.0	0.2247	0.4244	0.5356	0.0	0.0	0.0
	53	0.0	0.5962	0.5460	0.3496	0.0	0.0	0.0
	54	0.0	0.1716	0.0253	0.0232	0.0	0.0	0.0
	55	0.0	0.0047	0.0000	0.0001	0.0	0.0	0.0
	56	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
136	50	0.0	0.0	0.0000	0.0001	0.0	0.0	0.0
	51	0.0	0.0000	0.0091	0.0211	0.0	0.0	0.0
	52	0.0	0.0318	0.2855	0.3367	0.0	0.0	0.0
	53	0.0	0.5442	0.6097	0.5439	0.0	0.0	0.0
	54	0.0	0.4163	0.1012	0.0942	0.0	0.0	0.0
	55	0.0	0.0131	0.0010	0.0015	0.0	0.0	0.0
	56	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
137	50	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	51	0.0	0.0000	0.0000	0.0035	0.0	0.0	0.0
	52	0.0	0.0073	0.0187	0.1480	0.0	0.0	0.0
	53	0.0	0.2709	0.4846	0.5851	0.0	0.0	0.0
	54	0.0	0.6227	0.4846	0.2504	0.0	0.0	0.0
	55	0.0	0.1036	0.0187	0.0105	0.0	0.0	0.0
	56	0.0	0.0009	0.0000	0.0000	0.0	0.0	0.0
	57	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
138	51	0.0	0.0	0.0	0.0004	0.0	0.0	0.0
	52	0.0	0.0	0.0019	0.0445	0.0	0.0	0.0
	53	0.0	0.0082	0.2522	0.4426	0.0	0.0	0.0
	54	0.0	0.8209	0.6921	0.4595	0.0	0.0	0.0
	55	0.0	0.1763	0.0602	0.0501	0.0	0.0	0.0
	56	0.0	0.0000	0.0001	0.0005	0.0	0.0	0.0
	57	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
139	51	0.0	0.0000	0.0000	0.0000	0.0	0.0	0.0
	52	0.0	0.0012	0.0029	0.0090	0.0	0.0	0.0
	53	0.0	0.0586	0.1485	0.2339	0.0	0.0	0.0
	54	0.0	0.4075	0.6083	0.5894	0.0	0.0	0.0
	55	0.0	0.4542	0.2339	0.1611	0.0	0.0	0.0
	56	0.0	0.0817	0.0079	0.0041	0.0	0.0	0.0
	57	0.0	0.0022	0.0000	0.0000	0.0	0.0	0.0
	58	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
140	50	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	51	0.0	0.0	0.0003	0.0000	0.0	0.0	0.0
	52	0.0	0.0000	0.0119	0.0013	0.0	0.0	0.0
	53	0.0	0.0065	0.1388	0.0878	0.0	0.0	0.0
	54	0.0	0.2187	0.4254	0.5356	0.0	0.0	0.0
	55	0.0	0.6122	0.3493	0.3496	0.0	0.0	0.0
	56	0.0	0.1645	0.0765	0.0232	0.0	0.0	0.0
	57	0.0	0.0036	0.0043	0.0001	0.0	0.0	0.0
	58	0.0	0.0000	0.0001	0.0000	0.0	0.0	0.0
141	52	0.0	0.0	0.0003	0.0001	0.0	0.0	0.0
	53	0.0	0.0004	0.0163	0.0228	0.0	0.0	0.0
	54	0.0	0.0513	0.1920	0.3475	0.0	0.0	0.0
	55	0.0	0.5002	0.4873	0.5370	0.0	0.0	0.0
	56	0.0	0.4232	0.2756	0.0889	0.0	0.0	0.0
	57	0.0	0.0303	0.0341	0.0013	0.0	0.0	0.0
	58	0.0	0.0001	0.0009	0.0000	0.0	0.0	0.0
	59	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
142	52	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	53	0.0	0.0000	0.0023	0.0041	0.0	0.0	0.0
	54	0.0	0.0098	0.0879	0.1595	0.0	0.0	0.0
	55	0.0	0.2730	0.4728	0.5890	0.0	0.0	0.0
	56	0.0	0.6021	0.3929	0.2358	0.0	0.0	0.0
	57	0.0	0.1189	0.0498	0.0052	0.0	0.0	0.0
	58	0.0	0.0017	0.0009	0.0000	0.0	0.0	0.0
	59	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
143	53	0.0	0.0	0.0001	0.0005	0.0	0.0	0.0
	54	0.0	0.0	0.0188	0.0494	0.0	0.0	0.0
	55	0.0	0.0172	0.2861	0.4576	0.0	0.0	0.0
	56	0.0	0.7821	0.5530	0.4446	0.0	0.0	0.0
	57	0.0	0.2061	0.1440	0.0452	0.0	0.0	0.0
	58	0.0	0.0001	0.0046	0.0004	0.0	0.0	0.0
	59	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
144	53	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	54	0.0	0.0003	0.0006	0.0108	0.0	0.0	0.0
	55	0.0	0.0341	0.0852	0.2534	0.0	0.0	0.0
	56	0.0	0.3849	0.6036	0.5841	0.0	0.0	0.0
	57	0.0	0.5055	0.3073	0.1458	0.0	0.0	0.0
	58	0.0	0.0794	0.0099	0.0034	0.0	0.0	0.0
	59	0.0	0.0013	0.0000	0.0000	0.0	0.0	0.0
	60	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
145	53	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	54	0.0	0.0000	0.0000	0.0015	0.0	0.0	0.0
	55	0.0	0.0052	0.0099	0.0959	0.0	0.0	0.0
	56	0.0	0.1799	0.4489	0.5460	0.0	0.0	0.0
	57	0.0	0.5976	0.5303	0.3335	0.0	0.0	0.0
	58	0.0	0.2153	0.0175	0.0206	0.0	0.0	0.0
	59	0.0	0.0075	0.0000	0.0001	0.0	0.0	0.0
	60	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
146	54	0.0	0.0	0.0001	0.0001	0.0	0.0	0.0
	55	0.0	0.0006	0.0141	0.0238	0.0	0.0	0.0
	56	0.0	0.0583	0.2299	0.3529	0.0	0.0	0.0
	57	0.0	0.4839	0.5476	0.5334	0.0	0.0	0.0
	58	0.0	0.4238	0.2046	0.0862	0.0	0.0	0.0
	59	0.0	0.0386	0.0112	0.0013	0.0	0.0	0.0
	60	0.0	0.0003	0.0001	0.0000	0.0	0.0	0.0
	61	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
147	54	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	55	0.0	0.0000	0.0015	0.0032	0.0	0.0	0.0
	56	0.0	0.0090	0.0752	0.1407	0.0	0.0	0.0
	57	0.0	0.2343	0.4697	0.5818	0.0	0.0	0.0
	58	0.0	0.5944	0.4099	0.2604	0.0	0.0	0.0
	59	0.0	0.1635	0.0495	0.0115	0.0	0.0	0.0
	60	0.0	0.0042	0.0007	0.0000	0.0	0.0	0.0
	61	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
148	54	0.0	0.0	0.0001	0.0	0.0	0.0	0.0
	55	0.0	0.0	0.0037	0.0003	0.0	0.0	0.0
	56	0.0	0.0009	0.0591	0.0401	0.0	0.0	0.0
	57	0.0	0.0768	0.2848	0.4273	0.0	0.0	0.0
	58	0.0	0.5325	0.4273	0.4740	0.0	0.0	0.0
	59	0.0	0.3705	0.2010	0.0554	0.0	0.0	0.0
	60	0.0	0.0247	0.0293	0.0006	0.0	0.0	0.0
	61	0.0	0.0001	0.0013	0.0000	0.0	0.0	0.0
	62	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
149	55	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
	56	0.0	0.0001	0.0017	0.0001	0.0	0.0	0.0
	57	0.0	0.0179	0.1016	0.0180	0.0	0.0	0.0
	58	0.0	0.3162	0.5564	0.3194	0.0	0.0	0.0
	59	0.0	0.5619	0.3273	0.5567	0.0	0.0	0.0
	60	0.0	0.1074	0.0194	0.1057	0.0	0.0	0.0
	61	0.0	0.0019	0.0001	0.0018	0.0	0.0	0.0
	62	0.0	0.0000	0.0	0.0000	0.0	0.0	0.0
150	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	56	0.0	0.0000	0.0002	0.0010	0.0	0.0	0.0
	57	0.0	0.0027	0.0256	0.0754	0.0	0.0	0.0
	58	0.0	0.1301	0.3653	0.5164	0.0	0.0	0.0
	59	0.0	0.5799	0.5317	0.3765	0.0	0.0	0.0
	60	0.0	0.2794	0.0827	0.0281	0.0	0.0	0.0
	61	0.0	0.0133	0.0012	0.0002	0.0	0.0	0.0
	62	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
151	56	0.0	0.0	0.0000	0.0001	0.0	0.0	0.0
	57	0.0	0.0003	0.0047	0.0167	0.0	0.0	0.0
	58	0.0	0.0372	0.1718	0.3207	0.0	0.0	0.0
	59	0.0	0.4186	0.5965	0.5536	0.0	0.0	0.0
	60	0.0	0.4885	0.2249	0.1028	0.0	0.0	0.0
	61	0.0	0.0603	0.0082	0.0017	0.0	0.0	0.0
	62	0.0	0.0007	0.0000	0.0000	0.0	0.0	0.0
	63	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
152	56	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	57	0.0	0.0000	0.0005	0.0032	0.0	0.0	0.0
	58	0.0	0.0072	0.0546	0.1407	0.0	0.0	0.0
	59	0.0	0.2107	0.4749	0.5818	0.0	0.0	0.0
	60	0.0	0.5980	0.4348	0.2604	0.0	0.0	0.0
	61	0.0	0.1841	0.0415	0.0115	0.0	0.0	0.0
	62	0.0	0.0054	0.0003	0.0000	0.0	0.0	0.0
	63	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
153	57	0.0	0.0	0.0000	0.0004	0.0	0.0	0.0
	58	0.0	0.0009	0.0123	0.0430	0.0	0.0	0.0
	59	0.0	0.0730	0.2694	0.4375	0.0	0.0	0.0
	60	0.0	0.5150	0.5847	0.4644	0.0	0.0	0.0
	61	0.0	0.3865	0.1372	0.0518	0.0	0.0	0.0
	62	0.0	0.0298	0.0030	0.0005	0.0	0.0	0.0
	63	0.0	0.0002	0.0000	0.0000	0.0	0.0	0.0
	64	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
154	57	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	58	0.0	0.0001	0.0015	0.0095	0.0	0.0	0.0
	59	0.0	0.0179	0.1076	0.2387	0.0	0.0	0.0
	60	0.0	0.3162	0.5626	0.5883	0.0	0.0	0.0
	61	0.0	0.5619	0.3166	0.1572	0.0	0.0	0.0
	62	0.0	0.1074	0.0179	0.0039	0.0	0.0	0.0
	63	0.0	0.0019	0.0001	0.0000	0.0	0.0	0.0
	64	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
155	56	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	57	0.0	0.0	0.0	0.0015	0.0	0.0	0.0
	58	0.0	0.0000	0.0002	0.0959	0.0	0.0	0.0
	59	0.0	0.0035	0.0334	0.5460	0.0	0.0	0.0
	60	0.0	0.1481	0.4031	0.3335	0.0	0.0	0.0
	61	0.0	0.5892	0.5027	0.0206	0.0	0.0	0.0
	62	0.0	0.2539	0.0665	0.0001	0.0	0.0	0.0
	63	0.0	0.0107	0.0008	0.0000	0.0	0.0	0.0
	64	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
156	58	0.0	0.0	0.0000	0.0002	0.0	0.0	0.0
	59	0.0	0.0006	0.0086	0.0334	0.0	0.0	0.0
	60	0.0	0.0564	0.2297	0.4011	0.0	0.0	0.0
	61	0.0	0.4791	0.5960	0.4969	0.0	0.0	0.0
	62	0.0	0.4291	0.1677	0.0692	0.0	0.0	0.0
	63	0.0	0.0400	0.0045	0.0008	0.0	0.0	0.0
	64	0.0	0.0003	0.0000	0.0000	0.0	0.0	0.0
	65	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
157	58	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0
	59	0.0	0.0001	0.0015	0.0079	0.0	0.0	0.0
	60	0.0	0.0145	0.0959	0.2197	0.0	0.0	0.0
	61	0.0	0.2898	0.5495	0.5921	0.0	0.0	0.0
	62	0.0	0.5754	0.2391	0.1731	0.0	0.0	0.0
	63	0.0	0.1233	0.0210	0.0048	0.0	0.0	0.0
	64	0.0	0.0024	0.0001	0.0000	0.0	0.0	0.0
	65	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
158	58	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	59	0.0	0.0000	0.0002	0.0012	0.0	0.0	0.0
	60	0.0	0.0324	0.0266	0.0852	0.0	0.0	0.0
	61	0.0	0.1233	0.3707	0.5319	0.0	0.0	0.0
	62	0.0	0.5754	0.5278	0.3550	0.0	0.0	0.0
	63	0.0	0.2898	0.0802	0.0241	0.0	0.0	0.0
	64	0.0	0.0145	0.0011	0.0001	0.0	0.0	0.0
	65	0.0	0.0001	0.0000	0.0000	0.0	0.0	0.0
159	59	0.0	0.0	0.0000	0.0001	0.0	0.0	0.0
	60	0.0	0.0003	0.0049	0.0228	0.0	0.0	0.0
	61	0.0	0.0359	0.1759	0.3475	0.0	0.0	0.0
	62	0.0	0.4133	0.5976	0.5370	0.0	0.0	0.0
	63	0.0	0.4931	0.2202	0.0889	0.0	0.0	0.0
	64	0.0	0.0622	0.0079	0.0013	0.0	0.0	0.0
	65	0.0	0.0007	0.0000	0.0000	0.0	0.0	0.0
	66	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 17. ADJUSTED FRACTIONAL INDEPENDENT YIELDS FOR 14MEV FISSION. (CONT.)

MASS NO.	ATOMIC NO.	232TH	233U	235U	238U	239PU	240PU	241PU
160	59	0.0	0.0	0.0	0.0000	0.0	0.0	0.0
	60	0.0	0.0000	0.0000	0.0041	0.0	0.0	0.0
	61	0.0	0.0068	0.0110	0.1595	0.0	0.0	0.0
	62	0.0	0.2062	0.5508	0.5890	0.0	0.0	0.0
	63	0.0	0.5983	0.4398	0.2358	0.0	0.0	0.0
	64	0.0	0.1084	0.0049	0.0092	0.0	0.0	0.0
	65	0.0	0.0057	0.0000	0.0000	0.0	0.0	0.0
	66	0.0	0.0000	0.0	0.0	0.0	0.0	0.0
161	60	0.0	0.0	0.0001	0.0005	0.0	0.0	0.0
	61	0.0	0.0009	0.0134	0.0529	0.0	0.0	0.0
	62	0.0	0.0730	0.2797	0.4673	0.0	0.0	0.0
	63	0.0	0.5150	0.5806	0.4345	0.0	0.0	0.0
	64	0.0	0.3865	0.1302	0.0421	0.0	0.0	0.0
	65	0.0	0.0298	0.0027	0.0004	0.0	0.0	0.0
	66	0.0	0.0002	0.0000	0.0000	0.0	0.0	0.0
	67	0.0	0.0000	0.0	0.0	0.0	0.0	0.0

TABLE 18

Summary of adjustments to fractional independent yields

Element	Fission Energy	Odd-even Z effect* Max.	Odd-even Z effect* Min.	Proton balance (θ in Eqn. 11)	ϕ (see text)	$(\mathrm{Var}\ \phi)^{1/2}$	$\varepsilon = \phi/\Delta Z\%$
^{232}Th	Fast	-	-	0.99825	15.78	± 16.51	4.64
	14 MeV	-**	-				
^{233}U	Thermal	1.28	1.00	0.99964	3.31	± 8.0	1.27
	Fast	1.28	1.00	1.0001	- 0.92	± 23.1	- 0.35
	14 MeV	-	-	1.0055	-50.32	± 14.5	-19.4
^{235}U	Thermal	1.06	0.88	0.99927	6.72	± 6.62	2.23
	Fast	1.06	0.88	0.99927	6.72	± 6.62	2.23
	14 MeV	-	-	1.0066	-60.32	± 14.70	-20.0
^{238}U	Fast	-	-	1.0006	- 5.52	± 20.5	- 1.55
	14 MeV	-**	-	0.99761	22.04	± 12.34	6.2
^{239}Pu	Thermal	1.27	1.04	0.99998	0.19	± 10.5	0.07
	Fast	1.27	1.04	1.0002	- 1.88	± 9.11	- 0.69
^{240}Pu	Fast	-	-	1.0013	-12.20	± 20.67	- 4.21
^{241}Pu	Thermal	-	-	1.0004	- 3.76	± 11.8	- 1.19
	Fast	-	-	1.0003	- 2.82	± 20.0	- 0.89
					(1)	(2)	

*The individual fractional independent yields of Table 13, Ref. 6, for a given mass number add up to 1.0000. These individuals were multiplied by the odd-even Z factors of Ref. 6 and the resultant sums were in general not equal to 1.0000. The figure in the table records for each reaction, the maximum and the minimum of the resultant sums which were used to renormalise the individuals so that once more they added to 1.0000.

**The fractional independent yields were recalculated using the Z_p values recommended in Ref. 6.

(1) Mean value - 5.93; omitting 14 MeV results mean = + 0.51.

(2) S.D. about mean ± 22.8; omitting 14 MeV results S.D. about mean = ± 7.11.

TABLE 19

Yields of complementary fission product elements (percentages)

	^{233}U	^{235}U	^{239}Pu	^{241}Pu
THERMAL FISSION	Ge 0.611 ± .035	Ge 0.301 ± .024	Se 1.32 ± .04	Se 1.16 ± .047
	Nd 0.954 ± .016	Nd 0.543 ± .008	Nd 1.30 ± .05	Nd 1.14 ± .023
	As 1.51 ± .064	As 1.37 ± .037	Br 1.54 ± .05	Br 2.19 ± .105
	Pr 1.59 ± .025	Pr 1.23 ± .017	Pr 1.68 ± .04	Pr 2.28 ± .044
	Se 6.24 ± .15	Se 4.67 ± .11	Kr 4.70 ± .09	Kr 3.88 ± .158
	Ce 6.07 ± .11	Ce 3.87 ± .06	Ce 4.55 ± .13	Ce 3.89 ± .048
	Br 6.55 ± .15	Br 5.13 ± .14	Rb 5.21 ± .06	Rb 6.43 ± .25
	La 6.50 ± .10	La 6.58 ± .05	La 4.75 ± .15	La 6.19 ± .06
	Kr 18.4 ± .32	Kr 14.50 ± .48	Sr 11.5 ± .18	Sr 9.73 ± .32
	Ba 18.1 ± .31	Ba 16.0 ± .13	Ba 14.9 ± .36	Ba 9.95 ± .11
	Rb 10.6 ± .13	Rb 12.2 ± .13	Y 11.0 ± .27	Y 13.2 ± .54
	Cs 9.83 ± .17	Cs 9.51 ± .08	Cs 10.4 ± .22	Cs 12.2 ± .22
	Sr 21.0 ± .29	Sr 19.4 ± .16	Zr 21.7 ± .76	Zr 15.8 ± .72
	Xe 20.9 ± .30	Xe 20.1 ± .17	Xe 23.0 ± .75	Xe 14.9 ± .57
	Y 10.0 ± .18	Y 12.0 ± .10	Nb 14.6 ± .47	Nb 16.4 ± .83
	I 10.2 ± .17	I 13.2 ± .22	I 11.4 ± .28	I 16.5 ± .34
	Zr 14.0 ± .33	Zr 15.6 ± .20	Mo 17.7 ± .69	Mo 14.1 ± .79
	Te 15.9 ± .25	Te 15.4 ± .25	Tc 14.9 ± .29	Tc 15.7 ± .28
	Nb 5.36 ± .14	Nb 8.87 ± .16	Tc 5.75 ± .29	Tc 9.15 ± .59
	Sb 4.83 ± .14	Sb 7.97 ± .11	Sb 6.64 ± .17	Sb 10.8 ± .17
	Mo 4.15 ± .16	Mo 4.37 ± .08	Ru 3.70 ± .20	Ru 5.25 ± .40
	Sn 3.96 ± .23	Sn 5.25 ± .22	Sn 4.36 ± .25	Sn 4.50 ± .17
	Tc 0.65 ± .030	Tc 0.546 ± .022	Rh 0.771 ± .034	Rh 1.71 ± .12
	In 0.82 ± .05	In 0.440 ± .027	In 0.807 ± .051	In 1.13 ± .07
	Ru 0.28 ± .02	Ru 0.144 ± .008	Pd 0.271 ± .010	Pd .282 ± .015
	Cd 0.25 ± .01	Cd 0.128 ± .008	Cd 0.280 ± .012	Cd .220 ± .009
	Rh 0.077 ± .005	Rh 0.035 ± .001		
	Ag 0.052 ± .002	Ag 0.032 ± .001		
	Pd 0.079 ± .004	Pd .034 ± .002		
	Pd 0.079 ± .004	Pd .034 ± .002		

TABLE 19

(Cont'd)

	^{232}Th	^{233}U	^{235}U	^{238}U	^{239}Pu	^{240}Pu	^{241}Pu
FAST FISSION	Ge 1.06 ± .04	Ge 1.15 ± .07	Ge 0.644 ± .024	Ge 0.121 ± .008	Se 1.29 ± .03	Se 1.75 ± .11	Se 1.43 ± .08
	Ce 2.43 ± .10	Nd 1.15 ± .06	Nd 0.635 ± .022	Nd 0.223 ± .014	Nd 1.28 ± .05	Nd 1.78 ± .11	Nd 1.43 ± .09
	As 5.16 ± .23	As 2.60 ± .18	As 1.58 ± .045	As 0.458 ± .029	Br 1.50 ± .04	Br 3.15 ± .20	Br 2.67 ± .17
	La 6.65 ± .27	Pr 1.79 ± .10	Pr 1.40 ± .022	Pr 0.833 ± .059	Pr 1.53 ± .03	Pr 3.12 ± .20	Pr 2.65 ± .17
	Se 12.1 ± .55	Se 9.58 ± .64	Se 4.97 ± .085	Se 1.57 ± .10	Kr 4.85 ± .23	Kr 5.30 ± .33	Kr 4.64 ± .29
	Ba 13.3 ± .46	Ce 6.41 ± .34	Ce 4.03 ± .062	Ce 1.65 ± .10	Ce 3.95 ± .12	Ce 4.90 ± .31	Ce 4.35 ± .26
	Br 16.5 ± .65	Br 7.86 ± .51	Br 4.99 ± .085	Br 3.90 ± .20	Rb 5.23 ± .14	Rb 8.01 ± .50	Rb 7.37 ± .46
	Cs 17.5 ± .57	La 6.34 ± .35	La 6.60 ± .086	La 3.28 ± .14	La 4.04 ± .13	La 7.56 ± .48	La 6.88 ± .43
	Kr 17.9 .57	Kr 18.9 ± .86	Kr 13.2 ± .35	Kr 8.51 ± .54	Sr 10.9 ± .21	Sr 10.9 ± .68	Sr 10.6 ± .67
	Xe 18.9 ± .66	Ba 18.1 ± .90	Ba 16.0 ± .24	Ba 7.38 ± .33	Ba 13.0 ± .32	Ba 11.0 ± .70	Ba 11.0 ± .70
	Rb 20.1 ± 1.16	Rb 8.31 ± .49	Rb 11.1 ± .45	Rb 12.90 ± .63	Y 9.75 ± .18	Y 13.0 ± .80	Y 13.3 ± .81
	I 16.3 ± .58	Cs 10.6 ± .47	Cs 9.57 ± .16	Cs 10.8 ± .46	Cs 9.25 ± .18	Cs 12.7 ± .79	Cs 12.7 ± .78
	Sr 15.1 ± .62	Sr 16.0 ± .98	Sr 18.8 ± .54	Sr 13.1 ± .56	Zr 19.0 ± .35	Zr 14.4 ± .87	Zr 15.1 ± .91
	Te 11.8 ± .46	Xe 20.4 ± .96	Xe 19.6 ± .51	Xe 13.2 ± .52	Xe 22.3 ± .67	Xe 14.2 ± .88	Xe 14.7 ± .92
	Y 8.59 ± .34	Y 9.06 ± .54	Y 12.2 ± .26	Y 15.9 ± .64	Nb 14.6 ± .30	Nb 14.4 ± .88	Nb 14.9 ± .92
	Sb 7.12 ± .38	I 9.10 ± .55	I 12.7 ± .22	I 18.2 ± .86	I 13.2 ± .38	I 14.5 ± .93	I 15.9 ± 1.02
	Zr 3.01 ± .11	Zr 14.9 ± .76	Zr 16.4 ± .22	Zr 21.4 ± 1.34	Mo 19.2 ± .63	Mo 12.2 ± .78	Mo 12.4 ± .81
	Sn 2.31 ± .16	Te 14.0 ± .92	Te 15.0 ± .23	Te 21.7 ± 1.43	Te 18.0 ± .45	Te 12.5 ± .83	Te 13.6 ± .89
	Nb 0.58 ± .02	Nb 4.83 ± .24	Nb 9.84 ± .17	Nb 15.5 ± 1.04	Tc 6.93 ± .31	Tc 8.31 ± .59	Tc 8.42 ± .59
	In 0.80 ± .03	Sb 5.59 ± .38	Sb 8.06 ± .17	Sb 15.8 ± 1.16	Sb 7.12 ± .18	Sb 9.07 ± .63	Sb 9.38 ± .65
	Mo 0.121 ± .006	Mo 2.65 ± .29	Mo 5.35 ± .15	Mo 5.51 ± .37	Ru 5.19 ± .26	Ru 5.15 ± .37	Ru 5.45 ± .39
	Cd 0.204 ± .007	Sn 6.15 ± .39	Sn 4.74 ± .13	Sn 5.67 ± .32	Sn 3.93 ± .15	Sn 4.60 ± .30	Sn 4.41 ± .29
	Tc 0.070 ± .003	Tc 0.464 ± .027	Tc 0.704 ± .050	Tc 0.908 ± .052	Rh 1.22 ± .08	Rh 2.28 ± .16	Rh 2.29 ± .15
	Ag 0.123 ± .005	In 1.63 ± .089	In 0.431 ± .014	In 1.23 ± .077	In 0.72 ± .05	In 1.63 ± .09	In 1.31 ± .08
	Ru 0.094 ± .004	Ru 0.324 ± .014	Ru 0.205 ± .010	Ru 0.133 ± .009	Pd 0.424 ± .05	Pd 0.577 ± .030	Pd 0.518 ± .027
	Pd 0.111 ± .004	Cd 0.853 ± .028	Cd 0.276 ± .009	Cd 0.162 ± .011	Cd 0.321 ± .009	Cd 0.574 ± .075	Cd 0.541 ± .024
	Rh 0.108 ± .005	Rh 0.144 ± .011	Rh 0.091 ± .005	Rh 0.090 ± .002			
	Rh 0.108 ± .005	Ag 0.241 ± .009	Ag 0.115 ± .004	Ag 0.052 ± .002			
		Pd 0.264 ± .012	Pd 0.146 ± .005	Pd 0.028 ± .001			
		Pd 0.264 ± .012	Pd 0.146 ± .005	Pd 0.028 ± .001			

TABLE 19

(Cont'd)

	^{233}U	^{235}U	^{238}U
14 MeV FISSION	Ge 1.10 ± .07	Ge 0.740 ± .045	Ge 0.830 ± .055
	Nd 1.61 ± .09	Nd 0.770 ± .058	Nd 0.849 ± .042
	As 2.88 ± .14	As 2.31 ± .12	As 1.91 ± .07
	Pr 1.80 ± .10	Pr 1.33 ± .08	Pr 2.21 ± .14
	Se 5.19 ± .26	Se 4.22 ± .27	Se 3.42 ± .10
	Ce 3.17 ± .17	Ce 2.41 ± .13	Ce 2.83 ± .15
	Br 7.17 ± .45	Br 6.03 ± .31	Br 5.24 ± .27
	La 5.25 ± .29	La 5.45 ± .28	La 5.25 ± .24
	Kr 11.3 ± .57	Kr 10.3 ± .41	Kr 7.46 ± .24
	Ba 10.1 ± .42	Ba 8.58 ± .36	Ba 8.25 ± .30
	Rb 11.1 ± .42	Rb 12.5 ± .63	Rb 9.59 ± .41
	Cs 10.6 ± .33	Cs 8.11 ± .36	Cs 10.7 ± .46
	Sr 13.2 ± .54	Sr 13.1 ± .59	Sr 11.9 ± .56
	Xe 12.7 ± .63	Xe 13.3 ± .70	Xe 12.3 ± .40
	Y 11.7 ± .45	Y 12.5 ± .65	Y 13.9 ± .59
	I 10.7 ± .42	I 12.6 ± .64	I 13.4 ± .41
	Zr 10.1 ± .44	Zr 10.9 ± .62	Zr 14.6 ± .57
	Te 10.8 ± .33	Te 9.92 ± .47	Te 13.9 ± .29
	Nb 7.54 ± .42	Nb 10.4 ± .52	Nb 10.5 ± .41
	Sb 7.24 ± .34	Sb 11.4 ± .41	Sb 11.4 ± .28
	Mo 5.51 ± .33	Mo 5.59 ± .32	Mo 6.53 ± .34
	Sn 6.94 ± .37	Sn 10.7 ± .57	Sn 7.05 ± .33
	Tc 3.82 ± .25	Tc 3.24 ± .21	Tc 4.01 ± .21
	In 6.92 ± .31	In 5.67 ± .29	In 5.22 ± .24
	Ru 3.14 ± .20	Ru 2.99 ± .17	Ru 3.40 ± .19
	Cd 5.29 ± .24	Cd 5.02 ± .24	Cd 4.24 ± .19
	Rh 3.99 ± .24	Rh 3.10 ± .15	Rh 2.76 ± .13
	Ag 4.18 ± .20	Ag 3.55 ± .17	Ag 2.80 ± .13
	Pd 4.06 ± .22	Pd 3.78 ± .21	Pd 2.61 ± .13
	Pd 4.06 ± .22	Pd 3.78 ± .21	Pd 2.61 ± .13

TABLE 20

Values of $\bar{\nu}_T$ used in this work

Fissile Nuclide	^{232}Th	^{233}U	^{235}U	^{238}U	^{239}Pu	^{240}Pu	^{241}Pu
Thermal Fission	-	2.487	2.43	-	2.871	-	2.969
Fast Fission	2.30	2.50	2.45	2.76	2.92	3.15	2.97
14 MeV Fission	4.08	4.21	4.40	4.46	-	-	-