

APPENDIX K

DISTRIBUTIONS OF RELEASE QUANTITY ESTIMATES

This appendix contains detailed percentiles of the distribution of calibrated release estimates for the 26 highest days recorded at the S-8 sampler and baseline releases from 1964–69. Percentiles are presented by release day for the 26 highest S-8 sampler days and by year for the baseline release estimates.

18-Mar-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.976E-04
0.05	2.900E-03
0.10	4.290E-03
0.15	5.270E-03
0.20	6.521E-03
0.25	7.435E-03
0.30	8.634E-03
0.35	9.607E-03
0.40	1.081E-02
0.45	1.247E-02
0.50	1.433E-02
0.55	1.587E-02
0.60	1.819E-02
0.65	2.036E-02
0.70	2.320E-02
0.75	2.603E-02
0.80	3.035E-02
0.85	3.755E-02
0.90	4.814E-02
0.95	7.426E-02
1.00	3.745E-01

12-Apr-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	4.595E-03
0.05	1.366E-02
0.10	1.927E-02
0.15	2.374E-02
0.20	2.859E-02
0.25	3.403E-02
0.30	3.913E-02
0.35	4.442E-02
0.40	5.059E-02
0.45	5.738E-02
0.50	6.406E-02
0.55	7.252E-02
0.60	8.432E-02
0.65	9.472E-02
0.70	1.092E-01
0.75	1.276E-01
0.80	1.551E-01
0.85	1.844E-01
0.90	2.376E-01
0.95	3.364E-01
1.00	1.479E+00

13-May-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.076E-03
0.05	6.631E-03
0.10	9.073E-03
0.15	1.078E-02
0.20	1.293E-02
0.25	1.549E-02
0.30	1.749E-02
0.35	2.051E-02
0.40	2.326E-02
0.45	2.596E-02
0.50	2.955E-02
0.55	3.219E-02
0.60	3.567E-02
0.65	4.164E-02
0.70	4.680E-02
0.75	5.283E-02
0.80	6.196E-02
0.85	7.564E-02
0.90	1.019E-01
0.95	1.580E-01
1.00	5.535E-01

17-Sep-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.919E-04
0.05	1.152E-03
0.10	1.556E-03
0.15	2.158E-03
0.20	2.608E-03
0.25	3.199E-03
0.30	3.843E-03
0.35	4.463E-03
0.40	5.137E-03
0.45	5.776E-03
0.50	6.722E-03
0.55	7.516E-03
0.60	8.677E-03
0.65	1.008E-02
0.70	1.170E-02
0.75	1.343E-02
0.80	1.556E-02
0.85	1.845E-02
0.90	2.387E-02
0.95	3.392E-02
1.00	1.487E-01

22-Nov-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.108E-04
0.05	1.339E-03
0.10	1.880E-03
0.15	2.311E-03
0.20	2.911E-03
0.25	3.406E-03
0.30	4.033E-03
0.35	4.764E-03
0.40	5.317E-03
0.45	5.853E-03
0.50	6.898E-03
0.55	7.782E-03
0.60	8.758E-03
0.65	9.995E-03
0.70	1.158E-02
0.75	1.301E-02
0.80	1.540E-02
0.85	1.849E-02
0.90	2.294E-02
0.95	3.381E-02
1.00	1.946E-01

25-Nov-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	2.933E-04
0.05	1.071E-03
0.10	1.445E-03
0.15	1.789E-03
0.20	2.106E-03
0.25	2.551E-03
0.30	2.875E-03
0.35	3.287E-03
0.40	3.686E-03
0.45	4.298E-03
0.50	4.888E-03
0.55	5.671E-03
0.60	6.448E-03
0.65	7.172E-03
0.70	8.103E-03
0.75	9.408E-03
0.80	1.103E-02
0.85	1.309E-02
0.90	1.625E-02
0.95	2.346E-02
1.00	5.990E-02

5-Dec-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	2.729E-03
0.05	9.682E-03
0.10	1.441E-02
0.15	1.922E-02
0.20	2.264E-02
0.25	2.616E-02
0.30	2.975E-02
0.35	3.440E-02
0.40	3.898E-02
0.45	4.413E-02
0.50	5.049E-02
0.55	5.679E-02
0.60	6.508E-02
0.65	7.223E-02
0.70	8.179E-02
0.75	9.449E-02
0.80	1.098E-01
0.85	1.338E-01
0.90	1.718E-01
0.95	2.449E-01
1.00	9.363E-01

11-Dec-68

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	6.603E-04
0.05	1.986E-03
0.10	2.717E-03
0.15	3.507E-03
0.20	4.307E-03
0.25	5.101E-03
0.30	5.692E-03
0.35	6.360E-03
0.40	7.307E-03
0.45	8.189E-03
0.50	9.311E-03
0.55	1.072E-02
0.60	1.179E-02
0.65	1.349E-02
0.70	1.579E-02
0.75	1.846E-02
0.80	2.163E-02
0.85	2.562E-02
0.90	3.191E-02
0.95	4.592E-02
1.00	1.616E-01

2-Jan-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.227E-04
0.05	5.674E-04
0.10	7.880E-04
0.15	1.016E-03
0.20	1.278E-03
0.25	1.499E-03
0.30	1.719E-03
0.35	1.959E-03
0.40	2.263E-03
0.45	2.555E-03
0.50	2.864E-03
0.55	3.284E-03
0.60	3.693E-03
0.65	4.210E-03
0.70	4.724E-03
0.75	5.637E-03
0.80	6.506E-03
0.85	7.794E-03
0.90	9.426E-03
0.95	1.266E-02
1.00	6.712E-02

3-Jan-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.593E-02
0.05	9.575E-02
0.10	1.509E-01
0.15	1.884E-01
0.20	2.317E-01
0.25	2.785E-01
0.30	3.189E-01
0.35	3.680E-01
0.40	4.133E-01
0.45	4.660E-01
0.50	5.247E-01
0.55	5.859E-01
0.60	6.558E-01
0.65	7.308E-01
0.70	8.359E-01
0.75	9.692E-01
0.80	1.123E+00
0.85	1.362E+00
0.90	1.748E+00
0.95	2.408E+00
1.00	1.560E+01

7-Jan-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.093E-02
0.05	1.792E-01
0.10	2.464E-01
0.15	3.051E-01
0.20	3.535E-01
0.25	4.392E-01
0.30	5.079E-01
0.35	5.773E-01
0.40	6.572E-01
0.45	7.530E-01
0.50	8.875E-01
0.55	1.029E+00
0.60	1.205E+00
0.65	1.355E+00
0.70	1.562E+00
0.75	1.789E+00
0.80	2.058E+00
0.85	2.442E+00
0.90	3.085E+00
0.95	4.300E+00
1.00	2.234E+01

29-Jan-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.812E-04
0.05	2.670E-03
0.10	3.982E-03
0.15	4.931E-03
0.20	5.889E-03
0.25	6.931E-03
0.30	8.191E-03
0.35	9.282E-03
0.40	1.041E-02
0.45	1.147E-02
0.50	1.269E-02
0.55	1.434E-02
0.60	1.632E-02
0.65	1.788E-02
0.70	2.015E-02
0.75	2.329E-02
0.80	2.732E-02
0.85	3.274E-02
0.90	4.091E-02
0.95	5.980E-02
1.00	2.333E-01

30-Jan-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.593E-02
0.05	9.575E-02
0.10	1.509E-01
0.15	1.884E-01
0.20	2.317E-01
0.25	2.785E-01
0.30	3.189E-01
0.35	3.680E-01
0.40	4.133E-01
0.45	4.660E-01
0.50	5.247E-01
0.55	5.859E-01
0.60	6.558E-01
0.65	7.308E-01
0.70	8.359E-01
0.75	9.692E-01
0.80	1.123E+00
0.85	1.362E+00
0.90	1.748E+00
0.95	2.408E+00
1.00	1.560E+01

24-Feb-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	5.040E-04
0.05	1.721E-03
0.10	2.324E-03
0.15	2.769E-03
0.20	3.375E-03
0.25	3.904E-03
0.30	4.483E-03
0.35	5.002E-03
0.40	5.609E-03
0.45	6.487E-03
0.50	7.292E-03
0.55	8.121E-03
0.60	9.084E-03
0.65	1.041E-02
0.70	1.171E-02
0.75	1.356E-02
0.80	1.629E-02
0.85	1.928E-02
0.90	2.504E-02
0.95	3.687E-02
1.00	1.182E-01

Appendix K: Distribution of Release Quantity Estimates

19-Mar-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.632E-03
0.05	1.219E-02
0.10	1.708E-02
0.15	2.101E-02
0.20	2.543E-02
0.25	2.951E-02
0.30	3.380E-02
0.35	3.937E-02
0.40	4.401E-02
0.45	4.839E-02
0.50	5.504E-02
0.55	6.361E-02
0.60	7.180E-02
0.65	8.061E-02
0.70	9.066E-02
0.75	1.056E-01
0.80	1.278E-01
0.85	1.525E-01
0.90	1.933E-01
0.95	2.652E-01
1.00	1.231E+00

7-Apr-69

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.812E-02
0.05	7.738E-02
0.10	1.071E-01
0.15	1.308E-01
0.20	1.646E-01
0.25	1.927E-01
0.30	2.308E-01
0.35	2.699E-01
0.40	3.054E-01
0.45	3.357E-01
0.50	3.843E-01
0.55	4.411E-01
0.60	4.970E-01
0.65	5.679E-01
0.70	6.550E-01
0.75	7.422E-01
0.80	8.739E-01
0.85	1.037E+00
0.90	1.303E+00
0.95	1.930E+00
1.00	1.129E+01

Baseline Releases 1964

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	5.192E-05
0.05	8.072E-04
0.10	1.235E-03
0.15	1.896E-03
0.20	2.355E-03
0.25	2.898E-03
0.30	3.479E-03
0.35	4.156E-03
0.40	4.979E-03
0.45	5.655E-03
0.50	6.598E-03
0.55	7.662E-03
0.60	8.657E-03
0.65	1.029E-02
0.70	1.189E-02
0.75	1.415E-02
0.80	1.687E-02
0.85	2.085E-02
0.90	2.548E-02
0.95	3.792E-02
1.00	1.472E-01

Baseline Releases 1965

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	1.201E-04
0.05	9.441E-04
0.10	2.105E-03
0.15	2.907E-03
0.20	3.805E-03
0.25	5.102E-03
0.30	6.444E-03
0.35	7.711E-03
0.40	8.967E-03
0.45	1.114E-02
0.50	1.301E-02
0.55	1.502E-02
0.60	1.788E-02
0.65	2.093E-02
0.70	2.388E-02
0.75	3.012E-02
0.80	3.730E-02
0.85	4.550E-02
0.90	6.076E-02
0.95	1.026E-01
1.00	4.912E-01

Baseline Releases 1966

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	4.469E-05
0.05	1.270E-03
0.10	2.324E-03
0.15	3.269E-03
0.20	4.503E-03
0.25	5.558E-03
0.30	6.884E-03
0.35	8.186E-03
0.40	9.821E-03
0.45	1.177E-02
0.50	1.361E-02
0.55	1.613E-02
0.60	1.908E-02
0.65	2.216E-02
0.70	2.693E-02
0.75	3.223E-02
0.80	4.300E-02
0.85	5.363E-02
0.90	7.186E-02
0.95	1.097E-01
1.00	7.659E-01

Baseline Releases 1967

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	2.023E-04
0.05	2.957E-03
0.10	5.453E-03
0.15	7.447E-03
0.20	9.675E-03
0.25	1.148E-02
0.30	1.368E-02
0.35	1.588E-02
0.40	1.951E-02
0.45	2.307E-02
0.50	2.636E-02
0.55	2.957E-02
0.60	3.534E-02
0.65	4.028E-02
0.70	4.710E-02
0.75	5.663E-02
0.80	6.856E-02
0.85	8.361E-02
0.90	1.066E-01
0.95	1.633E-01
1.00	6.372E-01

Baseline Releases 1968

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	4.032E-03
0.05	1.071E-02
0.10	1.578E-02
0.15	1.852E-02
0.20	2.356E-02
0.25	2.872E-02
0.30	3.266E-02
0.35	3.743E-02
0.40	4.287E-02
0.45	4.882E-02
0.50	5.486E-02
0.55	6.161E-02
0.60	7.128E-02
0.65	8.114E-02
0.70	9.395E-02
0.75	1.112E-01
0.80	1.300E-01
0.85	1.546E-01
0.90	1.878E-01
0.95	3.019E-01
1.00	9.583E-01

Baseline Releases 1969

<u>Percentile</u>	<u>Release Quantity (Ci)</u>
0.00	3.454E-03
0.05	1.274E-02
0.10	1.724E-02
0.15	2.212E-02
0.20	2.676E-02
0.25	3.123E-02
0.30	3.744E-02
0.35	4.451E-02
0.40	5.055E-02
0.45	5.672E-02
0.50	6.360E-02
0.55	7.232E-02
0.60	8.051E-02
0.65	9.386E-02
0.70	1.101E-01
0.75	1.290E-01
0.80	1.487E-01
0.85	1.750E-01
0.90	2.244E-01
0.95	3.430E-01
1.00	1.306E+00