

EML-390

UC-11

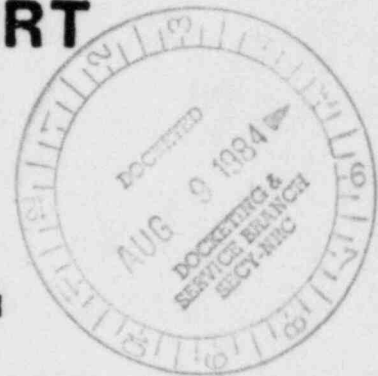
# ENVIRONMENTAL MEASUREMENTS LABORATORY ENVIRONMENTAL REPORT

PREPARED BY

EDWARD P. HARDY, JR.

ENVIRONMENTAL STUDIES DIVISION

SEPTEMBER 1, 1980 THROUGH MARCH 1, 1981



NUCLEAR REGULATORY COMMISSION

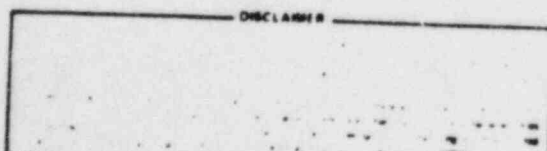
Docket No. 50-352/353 Official Ex. No. 173  
the matter of PECO - American  
Staff \_\_\_\_\_ IDENTIFIED ☒  
Applicant ☒ RECEIVED \_\_\_\_\_  
Intervenor \_\_\_\_\_ REJECTED \_\_\_\_\_  
Com'g Off'r \_\_\_\_\_  
Contractor \_\_\_\_\_ DATE 6/19/84  
Other \_\_\_\_\_ Witness \_\_\_\_\_  
Reporter Mary Simon

MAY 1, 1981

ENVIRONMENTAL MEASUREMENTS LABORATORY

U.S. DEPARTMENT OF ENERGY

NEW YORK, N.Y. 10014



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CESIUM - 137 CONCENTRATIONS IN SURFACE AIR DURING 1963  
(FEMTOCURIES / CUBIC METER)

| SITE                    | JAN.  | FEB.   | MAR.  | APR.   | MAY    | JUNE   | JULY   | AUG.   | SEP.  | OCT.  | NOV.  | DEC.  |
|-------------------------|-------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| THULE, GREENLAND        | 13.10 | 58.90  | 90.00 | 129.00 | 95.10  | 41.10  | 71.90  | 58.90  | 35.70 | 26.60 | 28.60 | 12.10 |
| MONSIEUR, ONTARIO       | 21.90 | 49.90  | 76.30 | 73.00  | 111.00 | 112.00 | 96.50  | 64.70  | 43.80 | 19.50 | 14.60 | 22.10 |
| NEW YORK, NEW YORK      | --    | 71.40  | 92.10 | 149.00 | 175.00 | 145.00 | --     | 121.00 | 76.90 | --    | 85.90 | --    |
| SIFERLING, VIRGINIA     | 3.84  | 147.00 | 71.90 | 126.00 | 126.00 | 136.00 | 130.00 | 96.70  | 62.70 | 54.40 | 33.50 | 22.10 |
| MIAMI, FLORIDA          | 43.40 | 90.30  | 81.90 | 145.00 | 141.00 | 98.90  | 63.50  | 36.90  | 13.20 | 60.60 | 44.70 | ~1.00 |
| MAUNA LOA, HAWAII       | 58.60 | 48.90  | 74.70 | 131.00 | 93.70  | 92.60  | 122.00 | 54.40  | 25.50 | 26.50 | 26.50 | 23.70 |
| SAN JUAN, PUERTO RICO   | 22.50 | 30.30  | 57.00 | 102.00 | 54.40  | 59.60  | 11.60  | 11.70  | 15.70 | 9.50  | 10.00 | 16.70 |
| MINAFLURES, PANAMA C.Z. | 31.40 | 16.60  | 56.90 | 68.40  | 26.50  | 7.24   | 13.50  | 13.20  | 2.20  | 4.26  | 7.29  | 12.40 |
| GLAYQUIL, ECUADOR       | --    | --     | --    | 7.01   | 2.25   | 0.90   | 6.56   | 2.80   | 2.45  | 2.79  | 3.80  | 3.60  |
| LIMA, PERU              | 9.76  | --     | --    | 5.52   | 0.45   | 4.23   | 4.79   | 5.34   | 6.92  | 5.23  | 7.72  | 4.51  |
| CHACALTAYA, BOLIVIA     | 3.11  | 3.09   | 1.49  | 1.90   | 3.60   | 5.95   | 13.80  | 13.90  | 10.30 | 5.68  | 6.94  | 5.06  |
| ANTOFAGASTA, CHILE      | 5.50  | 7.50   | 7.26  | 5.07   | 4.31   | 4.63   | 4.44   | 5.02   | 4.20  | 10.80 | 4.53  | 5.07  |
| SANTIAGO, CHILE         | 1.09  | 6.79   | 7.33  | 12.20  | 5.23   | 7.65   | 5.13   | 2.89   | 7.22  | 9.25  | 5.13  | 5.51  |
| PUERTO MONTT, CHILE     | 10.40 | 6.63   | 6.72  | 3.29   | 3.58   | 1.48   | 1.76   | 3.15   | 2.41  | 1.82  | 2.34  | 3.77  |
| PUNTA ARENAS, CHILE     | 1.32  | 6.88   | 3.94  | 2.51   | 1.52   | 1.29   | 2.13   | 2.61   | 2.04  | 1.00  | 1.38  | 1.14  |
| -- NO DATA              |       |        |       |        |        |        |        |        |       |       |       |       |

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

CESIUM - 137 CONCENTRATIONS IN SURFACE AIR DURING 1964  
(FEMTOCURIES / CUBIC METER)

| SITE                   | JAN.  | FEB.   | MAR.  | APR.   | MAY    | JUNE   | JULY   | AUG.  | SEP.  | CCF.  | WVW.  | SEC.  |
|------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| THULE, GREENLAND       | 43.20 | 41.60  | 56.10 | 64.60  | 70.30  | 14.70  | 9.49   | 31.30 | 19.12 | 12.90 | 14.60 | 12.50 |
| MOUSONER, ONTARIO      | 29.20 | 38.90  | 49.90 | 63.60  | 62.60  | 74.40  | 50.80  | 22.00 | 16.70 | 11.30 | 7.48  | 4.29  |
| SEATTLE, WASHINGTON    | 17.10 | 37.00  | 31.40 | 43.10  | 70.50  | 28.20  | 19.80  | 15.60 | 17.10 | 16.10 | 9.50  | 11.50 |
| APPLETON, WISCONSIN    | 32.90 | 38.50  | 79.70 | 63.40  | 114.00 | 110.00 | 65.80  | 34.50 | 19.90 | 21.20 | 29.30 | 10.70 |
| WYSTONCH, NEW JERSEY   | 35.80 | --     | 66.00 | 77.50  | 110.00 | 55.30  | 47.70  | 47.20 | 19.90 | 19.50 | 13.70 | 16.50 |
| NEW YORK, NEW YORK     | 31.40 | 44.60  | 57.90 | 59.00  | 121.00 | 118.00 | 49.60  | 40.20 | 26.60 | 20.60 | 29.10 | 12.70 |
| SEATTLE, VIRGINIA      | 32.90 | 40.40  | 66.10 | 55.40  | 121.00 | 58.70  | 43.90  | 33.80 | 27.70 | 15.50 | 14.40 | 12.30 |
| PALO ALTO, CALIFORNIA  | 37.20 | 73.40  | 78.10 | 123.00 | 42.40  | 29.10  | 36.50  | 17.80 | 23.10 | 13.50 | 19.60 | 12.20 |
| MINNEAPOLIS, MINNESOTA | 54.90 | 57.40  | 63.90 | 77.00  | 79.40  | 63.40  | 446.00 | 26.20 | 19.10 | 22.80 | 27.50 | 20.10 |
| CARLETON, ILLINOIS     | 49.40 | --     | 69.80 | 109.00 | 120.00 | 103.00 | 45.40  | 34.90 | 37.30 | 21.30 | 15.30 | 16.10 |
| MIAMI, FLORIDA         | 57.60 | 77.60  | 99.50 | 75.90  | 71.60  | 33.50  | 41.50  | 17.40 | 12.00 | 11.30 | 13.00 | 22.00 |
| MAINE, MAINE           | 57.60 | 126.00 | 57.70 | 99.10  | 121.00 | 51.40  | 49.50  | 20.20 | 21.40 | 10.40 | 3.24  | 3.20  |
| SEATTLE, OREGON        | 15.20 | 25.20  | 69.70 | 46.40  | 62.10  | 50.00  | 38.90  | 24.40 | 12.10 | 7.20  | 13.00 | 14.70 |
| MINNEAPOLIS, MINNESOTA | 19.40 | 29.70  | 57.20 | 40.20  | 27.10  | 5.42   | 5.37   | 6.44  | 1.36  | 0.67  | 1.69  | 7.29  |
| LAJAVILLA, CALIFORNIA  | 2.75  | 29.10  | 13.70 | 6.10   | 2.20   | 2.22   | 2.27   | 2.58  | 4.52  | 2.77  | 4.49  | 9.44  |
| LIMA, PERU             | 5.22  | 6.34   | 4.78  | 4.03   | 2.72   | 4.14   | 5.24   | 7.04  | 13.90 | 13.00 | 10.20 | 12.50 |
| CHICAGO, ILLINOIS      | 7.29  | 2.31   | 1.54  | 2.44   | 6.11   | 7.49   | 12.00  | 11.10 | 11.70 | 9.87  | 6.27  | 4.10  |
| ATLANTA, GEORGIA       | 4.84  | 4.03   | 3.99  | 4.52   | 3.15   | 6.49   | 9.85   | 11.90 | 13.30 | 10.20 | 7.07  | 12.10 |
| SAN JUAN, PUERTO RICO  | 5.49  | 7.11   | 4.48  | 4.04   | 4.41   | 5.24   | 6.20   | 7.26  | 10.30 | 9.44  | 9.28  | 11.10 |
| PIRATO MOUNT, CHILE    | 3.86  | 4.75   | 2.79  | 2.71   | 2.91   | 2.33   | 2.69   | 2.31  | 4.25  | 4.50  | 4.64  | 7.24  |
| PUERTO ARENAS, CHILE   | 1.71  | 2.15   | 1.45  | 1.54   | 1.72   | 1.10   | 1.10   | 3.70  | 2.26  | 3.17  | 2.32  | 4.47  |
| SOUTH POLE STATION     | --    | --     | --    | --     | --     | --     | --     | --    | --    | --    | 4.33  | 6.00  |

-- NO DATA

FIGURES ARE LESS THAN 100 PERCENT  
A - 100 PERCENT  
B - 100 PERCENT

LIST - 137 CONCENTRATIONS IN SURFACE AIR DURING 1965  
IFEMOCURIES / CUBIC METERS

| SITE                    | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| THULE, GREENLAND        | 24.50 | 14.70 | 34.90 | 35.40 | 18.10 | 9.75  | 9.46  | 13.60 | 8.76  | 6.75 | 5.24 | 5.17 |
| BRAVO OCEAN STATION     | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | 2.00 | --   |
| CHARLIE OCEAN STATION   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | 5.37 | --   |
| MONSIEUR, ONTARIO       | 12.20 | 14.50 | 21.30 | 28.70 | 23.60 | 16.20 | 13.50 | 10.20 | 6.45  | 6.26 | 1.75 | --   |
| SEATTLE, WASHINGTON     | 19.20 | 15.20 | 19.20 | 16.30 | 15.10 | 16.00 | 9.64  | --    | --    | --   | --   | --   |
| APPLETON, WISCONSIN     | 19.10 | 22.10 | 21.80 | 16.50 | 26.60 | 32.00 | 24.50 | 16.70 | 5.20  | 6.29 | 6.40 | --   |
| WESTPORT, NEW JERSEY    | 27.10 | 28.10 | 21.80 | 27.40 | 23.90 | 23.40 | --    | --    | --    | --   | --   | --   |
| NEW YORK, NEW YORK      | 17.40 | 26.20 | 23.10 | 30.50 | 23.10 | 34.00 | 24.70 | 15.60 | 9.74  | 9.10 | 6.35 | 6.51 |
| STERLING, VIRGINIA      | 13.10 | 23.40 | 20.60 | 24.90 | 13.90 | 25.10 | 17.20 | 13.40 | 8.36  | 1.44 | 1.71 | 7.1  |
| PALO ALTO, CALIFORNIA   | 11.50 | 22.10 | 20.40 | 24.40 | 23.20 | 14.50 | 12.50 | 9.72  | 12.30 | 7.64 | 5.71 | 6.11 |
| WIRMAN, OILCROW         | --    | --    | --    | --    | --    | --    | 20.30 | 13.20 | 9.04  | 1.00 | 1.17 | 1.2  |
| MIAMI ST. CITY, FLORIDA | 21.10 | 24.40 | 17.70 | 47.80 | 31.00 | 25.70 | --    | --    | --    | --   | --   | --   |
| CHATTANOOGA, TENNESSEE  | 11.40 | 23.00 | 15.70 | 41.70 | 10.00 | 18.10 | 21.50 | 12.10 | 4.60  | 1.13 | 9.44 | 1.7  |
| ECHO OCEAN STATION      | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   |
| MIAMI, FLORIDA          | 22.50 | 23.50 | 21.10 | 49.60 | 38.00 | 18.70 | 9.44  | 6.31  | 4.60  | 6.65 | 5.04 | 1.1  |
| MAHUA 102, GUATEMALA    | 27.70 | 61.10 | 16.10 | 34.70 | 20.10 | 25.20 | 21.00 | 12.60 | 6.46  | 4.41 | 5.1  | 1.2  |
| SAN JUAN, PUERTO RICO   | 16.30 | 15.50 | 16.10 | 34.60 | 10.90 | 13.40 | 10.30 | 6.72  | 2.72  | 2.44 | 2.15 | 1.5  |
| MANAGUA, NICARAGUA C.F. | 9.64  | 9.54  | 14.70 | 17.70 | 5.03  | 3.25  | --    | --    | --    | --   | --   | --   |
| HALEPA, PANAMA          | --    | --    | --    | --    | --    | --    | 4.61  | 2.26  | 2.50  | 1.47 | 2.66 | 1.74 |
| GUAYAJIL, ECUADOR       | 3.74  | 2.69  | 1.67  | 3.96  | 0.63  | 0.77  | 1.47  | 1.50  | 1.17  | 1.90 | 0.24 | 2.21 |
| LIMA, PERU              | 6.73  | 5.19  | 9.79  | 3.17  | 2.81  | 2.04  | 4.01  | --    | --    | 4.43 | --   | --   |
| MACALAYA, BOLIVIA       | 3.47  | 2.52  | 4.02  | 1.47  | 2.98  | 2.23  | --    | --    | --    | 0.22 | --   | --   |
| ANTOFAGASTA, CHILE      | 3.45  | 10.10 | 5.07  | 4.68  | 3.46  | 2.89  | 5.76  | 4.85  | 2.61  | 4.61 | --   | 5.16 |
| SANTIAGO, CHILE         | 12.10 | 8.67  | 7.16  | 6.63  | 4.48  | 2.82  | 6.90  | 6.63  | 7.81  | 5.25 | --   | 5.70 |
| PUERTO MONTT, CHILE     | 6.92  | 6.43  | 5.35  | 4.46  | 2.44  | 1.85  | 1.87  | 2.53  | 2.51  | 2.51 | 1.24 | 1.14 |
| PUNTA ARENAS, CHILE     | 1.43  | 5.17  | 3.92  | 3.34  | 4.38  | 1.19  | 1.51  | 1.19  | 3.09  | 1.50 | 1.42 | 1.17 |
| SOUTH POLE STATION      | 7.34  | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   |

-- NO DATA

ERRORS ARE LESS THAN 1% EXCEPT:  
A - ERROR BETWEEN 10% AND 100%  
B - ERROR GREATER THAN 100%



CESIUM - 137 CONCENTRATIONS IN SURFACE AIR DURING 1966  
 (PENTOCURIES / CUBIC METER)

| SITE                   | JAN.  | FEB.  | MAR.   | APR.  | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------------------|-------|-------|--------|-------|-----|------|------|------|------|------|------|------|
| THULE, GREENLAND       | --    | 15.40 | 17.30  | 15.50 | --  | --   | --   | --   | --   | --   | --   | --   |
| ARAWO OCEAN STATION    | --    | 5.05  | 7.43   | 11.40 | --  | --   | --   | --   | --   | --   | --   | --   |
| CHARLIE OCEAN STATION  | --    | 3.21  | 8.30   | 7.93  | --  | --   | --   | --   | --   | --   | --   | --   |
| MONSIEUR, ONTARIO      | 6.30  | 6.96  | 10.00  | 7.23  | --  | --   | --   | --   | --   | --   | --   | --   |
| DELTA OCEAN STATION    | --    | 7.17  | 9.75   | 6.99  | --  | --   | --   | --   | --   | --   | --   | --   |
| W. STIMMON, NEW JERSEY | --    | --    | --     | 11.20 | --  | --   | --   | --   | --   | --   | --   | --   |
| N. W. YORK, NEW YORK   | 8.23A | 6.30  | 11.90A | 10.90 | --  | --   | --   | --   | --   | --   | --   | --   |
| SIFERLING, VIRGINIA    | 6.36  | 6.71  | 12.10  | 6.90  | --  | --   | --   | --   | --   | --   | --   | --   |
| ECHO OCEAN STATION     | --    | 11.00 | 13.40  | 17.20 | --  | --   | --   | --   | --   | --   | --   | --   |
| MIAMI, FLORIDA         | 9.35  | 9.03  | 19.20  | 14.00 | --  | --   | --   | --   | --   | --   | --   | --   |
| MALNA LUGA, HAWAII     | 17.40 | 11.10 | 26.00  | 18.70 | --  | --   | --   | --   | --   | --   | --   | --   |
| SAN JUAN, PUERTO RICO  | 6.62  | 9.24  | 11.20  | 7.37  | --  | --   | --   | --   | --   | --   | --   | --   |
| HALBON, PANAMA         | 4.10  | 6.07  | 7.54   | 5.78  | --  | --   | --   | --   | --   | --   | --   | --   |
| GLAYAGUIL, ECUADOR     | 1.56  | 1.54  | 1.15   | 2.84  | --  | --   | --   | --   | --   | --   | --   | --   |
| LIMA, PERU             | 5.65  | 5.07  | 3.07   | 2.21  | --  | --   | --   | --   | --   | --   | --   | --   |
| CHACALTAYA, BOLIVIA    | 3.74  | 1.45  | 2.06   | 1.83  | --  | --   | --   | --   | --   | --   | --   | --   |
| ANTOFAGASTA, CHILE     | 3.60  | 3.94  | 4.09   | 2.32  | --  | --   | --   | --   | --   | --   | --   | --   |
| SANTIAGO, CHILE        | 8.22  | 7.62  | 4.06   | 2.65  | --  | --   | --   | --   | --   | --   | --   | --   |
| PUERTO MONTE, CHILE    | 6.34  | 3.31  | 2.20   | 1.81  | --  | --   | --   | --   | --   | --   | --   | --   |
| PISTA ARENAS, CHILE    | 2.38  | 1.69  | 2.15   | 1.31  | --  | --   | --   | --   | --   | --   | --   | --   |
| -- NO DATA             | --    | --    | --     | --    | --  | --   | --   | --   | --   | --   | --   | --   |

ERRORS ARE LESS THAN 20% EXCEPT:  
 A - ERROR BETWEEN 20% AND 100%  
 B - ERROR GREATER THAN 100%

TABLE 1 - 117 CONCENTRATIONS IN SURFACE AIR DURING 1963  
(UNITED STATES / COUNTRIES)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG.  | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|-----|------|------|-------|------|------|------|------|
| THULE, GREENLAND         | --   | --   | --   | --   | --  | --   | 3.65 | 3.75  | 2.95 | 1.65 | 1.97 | --   |
| BRAWO OCEAN STATION      | --   | --   | --   | --   | --  | --   | 1.27 | 1.32  | 1.14 | 1.04 | 0.77 | 0.57 |
| CHARLIE OCEAN STATION    | --   | --   | --   | --   | --  | --   | 1.69 | --    | 1.01 | 0.70 | 1.03 | 0.33 |
| MOOSMEE, ONTARIO         | --   | --   | --   | --   | --  | --   | 5.13 | 4.55  | 3.77 | --   | 1.16 | 1.24 |
| DELTA OCEAN STATION      | --   | --   | --   | --   | --  | --   | 3.10 | 3.13  | 1.65 | 0.97 | --   | 1.33 |
| NEW YORK, NEW YORK       | --   | --   | --   | --   | --  | --   | 6.24 | 5.52  | 4.03 | 3.24 | 1.97 | 2.16 |
| STERLING, VIRGINIA       | --   | --   | --   | --   | --  | --   | 5.67 | 4.13  | 3.99 | 2.20 | 2.11 | 1.49 |
| CHMO OCEAN STATION       | --   | --   | --   | --   | --  | --   | 6.63 | 3.53  | 1.63 | 2.79 | 1.52 | 1.56 |
| MIAMI, FLORIDA           | --   | --   | --   | --   | --  | --   | 3.71 | 1.61  | 1.53 | 1.36 | 3.12 | 1.73 |
| ATLANTA, GEORGIA         | --   | --   | --   | --   | --  | --   | 4.27 | 4.32  | 1.37 | 4.11 | --   | --   |
| WALN LAR, HAWAII         | --   | --   | --   | --   | --  | --   | 5.12 | 4.65  | 3.11 | 1.68 | 0.92 | 1.24 |
| SAN JUAN, PUERTO RICO    | --   | --   | --   | --   | --  | --   | 4.08 | 1.43  | 2.13 | 2.38 | 2.03 | 1.26 |
| BAHIA, PANAMA            | --   | --   | --   | --   | --  | --   | 1.71 | 1.22  | 3.63 | 0.34 | 2.32 | 0.74 |
| GUAYAGUIL, ECUADOR       | --   | --   | --   | --   | --  | --   | 0.33 | 2.23  | 1.53 | 1.16 | 1.73 | 2.57 |
| LIMA, PERU               | --   | --   | --   | --   | --  | --   | 0.90 | 5.37  | 3.72 | 1.67 | 4.31 | 2.04 |
| MACALAYA, POLYVA         | --   | --   | --   | --   | --  | --   | 4.71 | 12.60 | 7.85 | 3.05 | 2.74 | 2.74 |
| ANTO-AGASTA, CHILE       | --   | --   | --   | --   | --  | --   | 1.62 | 4.93  | 3.27 | 4    | 3.20 | 2.05 |
| ISLA DE PASCUA-EASTER IS | --   | --   | --   | --   | --  | --   | --   | --    | --   | 1.40 | --   | --   |
| POMILLO, CHILE           | --   | --   | --   | --   | --  | --   | 4.24 | 16.59 | 1.33 | --   | --   | --   |
| SANTIAGO, CHILE          | --   | --   | --   | --   | --  | --   | 1.32 | 4.13  | 3.32 | 2.17 | 3.53 | 2.74 |
| PUEBLO VIEJO, CHILE      | --   | --   | --   | --   | --  | --   | 0.37 | 1.01  | 1.23 | 0.74 | 1.11 | 1.33 |
| PUNTA ARENAS, CHILE      | --   | --   | --   | --   | --  | --   | 3.25 | 0.17  | 3.55 | 3.16 | 1.17 | 2.64 |
| ANTARCTICA               | --   | --   | --   | --   | --  | --   | --   | --    | --   | --   | --   | 3.56 |

-- NO DATA

CONCENTRATIONS ARE IN MICROGRAMS PER CUBIC METER  
A - ANALYSED BY THE U.S. AIR FORCE

SECTION - 137 CONCENTRATIONS IN SURFACE AIR DURING 1969  
(FFRACITIES / CUBIC METER)

| STATION                  | JAN.  | FEB.  | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV.  | DEC. |
|--------------------------|-------|-------|------|------|------|------|------|------|------|------|-------|------|
| THULE, GREENLAND         | 2.59  | 2.64  | 3.06 | --   | 1.76 | 6.31 | 2.32 | --   | 1.56 | 2.21 | --    | --   |
| ARAGO OCEAN STATION      | 1.17  | 1.61  | 1.07 | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| CHARLIE OCEAN STATION    | 1.16  | 2.12  | 1.66 | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| MOSMEE, UTAHIC           | 2.13  | 2.36  | 3.34 | 6.34 | 3.53 | 3.67 | 5.46 | --   | 3.35 | 1.59 | 1.23  | 1.22 |
| JELTA OCEAN STATION      | 1.44  | 1.82  | 7.29 | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| NEW YORK, NEW YORK       | 3.26  | --    | 4.41 | 5.03 | 1.00 | --   | --   | --   | 5.71 | 1.93 | 1.33  | 1.23 |
| STEARING, VIRGINIA       | 2.63  | --    | 4.11 | 1.91 | 6.55 | 6.42 | 5.32 | --   | 1.50 | 2.19 | 1.50  | 1.24 |
| CHMO OCEAN STATION       | 1.59  | 2.35  | 2.09 | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| MIAMI, FLORIDA           | 3.67  | --    | 5.94 | 1.73 | 3.42 | 3.61 | 3.46 | 1.33 | 1.48 | 2.61 | 2.62  | 3.3  |
| STINNI, ALABAMA          | 3.15  | 6.44  | 9.40 | 5.16 | 3.44 | 3.26 | 3.01 | 3.74 | 1.55 | 1.81 | 2.89  | 4.25 |
| WALNA LOA, HAWAII        | 3.76  | 2.93  | 3.93 | 6.61 | 3.58 | 7.57 | 6.93 | 1.77 | 2.89 | 3.27 | 1.16  | 2.63 |
| SAN JUAN, PUERTO RICO    | 1.52  | 3.15  | 1.47 | 3.6  | 2.77 | 3.36 | 4.89 | 2.54 | 1.35 | 2.39 | 1.21  | 1.22 |
| SALINA, PANAMA           | 3.31  | 1.81  | 1.52 | 2.09 | 1.05 | 4.15 | 2.99 | 0.23 | 3.15 | 2.36 | 3.30  | 3.46 |
| DIABOLIL, ECUADOR        | 1.42  | 1.09  | 2.15 | 2.27 | 0.32 | 3.16 | 2.75 | 2.63 | 3.62 | 1.31 | 1.24  | 1.57 |
| LIMA, PERU               | 3.45  | 3.61  | 1.97 | 1.36 | --   | 1.19 | 2.77 | 2.27 | 3.81 | 7.25 | 4.44  | 3.23 |
| JALAYAY, BOLIVIA         | 2.26  | 2.84  | 3.55 | 2.23 | 1.62 | 1.56 | 6.52 | 3.39 | 2.27 | 2.62 | 2.268 | 1.63 |
| ANTOFAGASTA, CHILE       | 2.63  | 2.66  | 2.62 | 1.78 | 1.53 | --   | 1.03 | --   | --   | 5.29 | 1.01  | 9.32 |
| ISLA DE PASCLA-CASTER IS | --    | --    | --   | 2.53 | --   | --   | 1.31 | --   | --   | 1.94 | --    | --   |
| PORTILLO, CHILE          | 15.83 | 15.50 | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| SANTIAGO, CHILE          | 3.44  | 4.17  | 4.11 | 2.63 | 2.18 | 3.20 | 4.49 | --   | 3.33 | 4.59 | --    | 4.65 |
| PLATO MONTT, CHILE       | 2.22  | 2.15  | 2.40 | 1.97 | 1.76 | 1.35 | 1.54 | 1.73 | 1.61 | 1.76 | 1.16  | --   |
| PUNTA ARENAS, CHILE      | 3.85  | --    | 1.63 | 2.79 | 2.24 | 2.46 | 1.26 | --   | 3.35 | 1.03 | 3.67  | 0.71 |
| ANTARCTICA               | --    | --    | --   | 3.82 | 0.64 | 1.71 | 0.42 | 3.52 | 2.39 | 3.50 | --    | 0.54 |

-- NO DATA  
ERRORS ARE LESS THAN 2% EXCEPT:  
A - ERROR BETWEEN 5% AND 10%  
B - ERROR GREATER THAN 10%

CESTJM - 117 CONCENTRATIONS IN SURFACE AIR DURING 1973  
(CENTIGRADES / CUBIC METERS)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| NOR. GREENLAND           | --   | --   | --   | --   | --   | --   | --   | --   | 2.7  | 3.4  | 2.8  | 4.3  |
| THULE, GREENLAND         | 2.3  | 2.6  | 3.1  | 4.0  | 4.0  | 1.3  | 4.2  | 3.5  | --   | 5.3  | 1.5  | --   |
| MOYSSONEE, ONTARIO       | 1.5  | 2.2  | 4.2  | 4.4  | 4.4  | 6.1  | 12.0 | 7.5  | 4.6  | 3.0  | 1.3  | 2.7  |
| NEW YORK, NEW YORK       | 2.0  | 2.4  | 4.5  | 4.2  | 4.2  | 11.5 | 16.7 | 11.9 | 4.4  | 3.2  | 2.5  | 1.7  |
| STERLING, VIRGINIA       | 3.8  | 2.3  | 3.1  | --   | --   | 12.1 | 10.3 | 9.5  | 4.4  | 3.1  | 2.3  | 2.1  |
| MIAMI, FLORIDA           | 2.0  | 4.4  | 5.1  | 3.7  | 11.4 | 7.3  | 7.4  | 5.5  | 2.0  | 2.8  | 3.4  | 4.4  |
| BITINI, BAHAMAS          | 3.2  | 4.7  | 7.1  | 12.2 | 14.6 | 9.8  | 9.7  | 6.4  | 2.5  | 3.1  | 3.0  | 5.1  |
| MAUNA LOA, HAWAII        | 2.5  | 7.5  | 12.2 | --   | 15.3 | 12.8 | 10.1 | 4.5  | 5.2  | 1.3  | 1.5  | 2.1  |
| SAN JUAN, PUERTO RICO    | 0.9  | 3.6  | 4.4  | --   | 4.0  | 5.6  | 5.0  | 6.7  | 2.6  | 1.1  | 1.4  | 2.0  |
| BALEIA, PANAMA           | 3.9  | 1.7  | --   | --   | 3.6  | 1.4  | 1.9  | 1.4  | 0.4  | --   | --   | --   |
| GUAYABIL, ECUADOR        | 3.9  | 1.0  | 0.6  | --   | 5.3  | 0.6  | 1.5  | 0.9  | 1.9  | 1.4  | 1.7  | 2.1  |
| LIMA, PERU               | 4.7  | 2.6  | 2.5  | 3.2  | 1.3  | 2.2  | 11.6 | 5.2  | 6.1  | 9.5  | 5.9  | 5.3  |
| CHACALTAYA, BOLIVIA      | 3.8  | 3.6  | 3.5  | --   | 2.5  | 7.4  | 5.7  | 7.8  | 6.3  | 6.0  | 4.3  | --   |
| ANTOFAGASTA, CHILE       | 6.6  | 2.6  | 1.9  | --   | --   | --   | 7.4  | 4.9  | 5.0  | 6.8  | 3.7  | 3.2  |
| ISLA DE PASCUA-EASTER IS | 2.5  | --   | --   | --   | 0.9  | 1.2  | --   | 1.3  | 1.9  | 1.8  | --   | 1.7  |
| SANTIAGO, CHILE          | 4.2  | 4.1  | 2.9  | 2.2  | 2.3  | 1.0  | 3.3  | 3.2  | 4.1  | 5.7  | 4.0  | 4.5  |
| PUERTO MONTT, CHILE      | --   | --   | --   | --   | --   | 1.0  | 1.0  | 1.3  | --   | 1.2  | 3.4  | 1.4  |
| PUNTA ARENAS, CHILE      | 1.0  | 1.5  | 3.2  | --   | 0.4  | 0.4  | 0.5  | 0.5  | --   | 2.7  | 1.0  | 0.7  |
| ANTARCTICA               | 3.6  | 1.5  | 1.3  | 1.4  | 1.2  | 1.7  | 2.7  | 0.5  | 3.8  | 3.8  | 0.6  | 0.7  |
| SOUTH POLE STATION       | --   | --   | --   | --   | --   | 1.3  | 1.5  | 0.8  | 1.0  | 1.1  | 1.3  | 1.4  |

-- NO DATA

ERRORS ARE LESS THAN 2% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%



TABLE 1 - 137 CONCENTRATIONS IN SURFACE AIR DURING 1971  
 (IN MICROGRAMS PER CUBIC METRE)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| NORD, GREENLAND          | 2.0  | 2.0  | 4.1  | --   | 2.4  | 2.2  | 2.7  | 1.8  | 1.3  | 1.1  | 1.3A | 1.2  |
| THULE, GREENLAND         | 4.9  | 4.2  | 3.1  | 6.1  | --   | 4.2  | 4.7  | 3.9  | 2.2  | 1.9  | 1.6  | 1.3  |
| MOUSOONEE, ONTARIO       | 3.5  | 1.5  | 4.1  | 3.1  | --   | 12.0 | 4.1  | 6.8  | 3.9  | 1.9  | --   | --   |
| SALT LAKE CITY, UTAH     | 1.4  | --   | 4.5  | 17.2 | 21.1 | 21.9 | 11.4 | 5.5  | 4.4  | 2.8  | 2.4  | 2.3  |
| NEW YORK, NEW YORK       | 2.3  | 2.5  | 5.3  | 6.4  | 10.2 | 11.7 | 11.8 | 8.5  | --   | 2.3  | 1.4  | 1.6  |
| ROCKY FLATS, COLORADO 41 | 2.1  | --   | 4.1  | --   | --   | --   | --   | --   | --   | --   | --   | 2.1  |
| STERLING, VIRGINIA       | 2.7  | --   | 4.1  | --   | 12.0 | 8.6  | 9.0  | 5.3  | 2.4  | 1.5  | 1.3A | 1.6  |
| MIAMI, FLORIDA           | 5.1  | 6.4  | 1.1  | 12.1 | --   | 4.5  | 5.6  | 2.3  | 1.6  | 1.0  | 2.7  | --   |
| GIJINI, BAHAMAS          | 5.1  | --   | 14.1 | --   | --   | 4.3  | 6.5  | 3.1  | 2.1A | 2.3A | 4.7  | --   |
| KAUAI LOA, HAWAII        | 5.3  | 0.5  | 3.1  | --   | 1.2  | 15.4 | 4.1  | 3.4  | 2.4  | 2.1  | 1.4A | 2.0A |
| SAN JUAN, PUERTO RICO    | 2.3  | 3.1  | 7.5  | --   | --   | --   | --   | --   | --   | --   | 0.9A | 1.6  |
| BALBUA, PAVANA           | --   | --   | --   | --   | 2.2  | 2.7  | 2.1  | 1.3  | 1.1  | 0.3A | 8    | 0.9A |
| MONTA, VENEZUELA         | --   | --   | --   | --   | --   | --   | --   | 1.3  | 1.5  | 0.5  | 0.5  | 0.7  |
| PICO ESPEJO, VENEZUELA   | --   | --   | --   | --   | --   | --   | --   | 0.4  | 0.6A | 0.5  | 0.5A | 0.5A |
| LA AGUADA, VENEZUELA     | --   | --   | --   | --   | --   | --   | --   | 0.7  | 0.4A | 0.2A | 0.3  | 0.9A |
| GUAYAQUIL, ECUADOR       | 1.3  | 1.7  | 4.1  | 4.7  | 4.0A | 6.6  | 6.3  | 6.7  | --   | 1.3  | 2.2  | 1.7  |
| LIMA, PERU               | 1.7  | 1.2  | 4    | --   | 4.1  | 2.6  | 1.7  | 3.5  | 4.5  | --   | 5.4  | 6.1  |
| CHACALTAYA, BOLIVIA      | 1.4  | 1.7  | 4.7A | 1.1  | 1.6  | 4.4  | 5.7  | 3.4A | 5.1  | 5.1  | --   | 6    |
| ANTOFAGASTA, CHILE       | 4.2  | --   | 1.7A | --   | 1.1  | 3.3  | 7.0  | 7.5  | 2.5  | 5.6  | 5.7  | 4.4  |
| ISLA DE PASCHA-EASTER IS | 1.4  | --   | 1.1  | 1.1  | 1.6  | 1.5  | 1.1  | 1.0  | 2.1  | 1.9  | 2.5  | 1.7  |
| SANTIAGO, CHILE          | 1.5  | --   | 5.1  | 5.7  | 2.2  | --   | --   | 5.6  | 3.5  | 4.2  | 4.1  | 4.5  |
| PUERTO MONTT, CHILE      | 2.2  | 2.1  | 2.7  | 1.1  | --   | --   | --   | 1.1  | 1.3  | 1.7A | 1.7  | 1.6  |
| PUNTA ARENAS, CHILE      | 1.1  | 1.4  | 1.7  | --   | 1.5  | --   | 1.5  | --   | --   | --   | --   | --   |
| ANTARCTICA               | 1.6A | 0.9  | 4    | 1.7  | 1.6  | 1.3A | 1.1  | 8    | 0.7  | 0.5  | 0.6A | 0.8  |
| SOUTH POLE STATION       | 1.5  | 1.5  | 1.1  | 1.1  | 2.2  | 1.1  | 1.2  | 1.5  | 1.5  | 2.7  | 1.6  | 5.2  |

-- NO DATA

ERRORS ARE LESS THAN 2% EXCEPT:  
 A - ERROR BETWEEN 1% AND 10%  
 B - ERROR GREATER THAN 10%

CLIN - 197 CONCENTRATIONS IN SURFACE AIR DURING 1972  
(MICROGRAMS / CUBIC METER)

[illegible][illegible]

CESIUM - 137 CONCENTRATIONS IN SOILS, 1971-1979  
(FEMTOCURIES / GRAM DRY WEIGHT)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| THULE, GREENLAND         | 3.5  | 1.3  | 1.2  | 1.4  | 1    | 0.5A | 0.6  | 0.8  | 0.8   | 0.8  | 0.8  | 0.8  |
| KAP TOBIN, GREENLAND     | --   | --   | --   | --   | --   | --   | 0.12 | 0.2  | 0.2   | 0.2  | 0.2  | 0.2  |
| MOOSEWEE, ONTARIO        | --   | 3.3A | 3.3  | 1.4  | 1.6  | 0.7  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| HELENA, MONTANA          | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --   | --   |
| SALT LAKE CITY, UTAH     | 1.0  | 1.3  | 1.6  | 2.2  | 3.1  | 2.1  | 1.2  | 1.2  | 1.2   | 1.2  | 1.2  | 1.2  |
| NEW YORK, NEW YORK       | 3.7  | 3.8  | 3.9  | 1.2  | 1.1  | 1.2  | 0.7  | 0.4  | 0.4   | 0.4  | 0.4  | 0.4  |
| ROCKY FLATS, COLORADO #1 | 3.9  | 3.9  | 1.3  | 1.2  | 1.5  | 1.2  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| ROCKY FLATS, COLORADO #2 | 3.7  | 1.2  | 1.3  | 1.4  | 2.1  | 1.6  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| ROCKY FLATS, COLORADO #3 | 3.9  | 1.3  | 1.9  | 1.3  | 2.4  | 1.7  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| STERLING, VIRGINIA       | 3.6  | 3.6A | 3.9  | 1.1  | 1.6  | 0.9  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| RICHMOND, CALIFORNIA     | --   | --   | 3.7  | 1.5  | 3.8  | 2.5  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| MIAMI, FLORIDA           | 1.0A | 1.5  | 1.7  | 2.7  | 2.3  | 1.6  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| MAUNA LOA, HAWAII        | 3.9  | 1.5  | 1.5  | 2.2  | 1.4  | 1.2  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| SAN JUAN, PUERTO RICO    | 3.5  | 3.8  | 1.3  | 1.3  | 1.6  | 0.9  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| HALBOA, PANAMA           | 3.5  | 1.3  | 3.8  | 0.9  | 0.9  | 0.9  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| MERIDA, VENEZUELA        | 3.5  | 3.5  | 3.7  | 3.7  | 1.0  | 0.3  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| PICO ESPEJO, VENEZUELA   | 3.4  | 3.7  | 3.3A | 2.4  | 0.3A | 0.3  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| LA AGUADA, VENEZUELA     | 3.6  | 3.6A | 3.5  | 3.5  | 0.4  | 0.2A | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| GUAYAQUIL, ECUADOR       | 3.2  | 3.2A | 3.1  | 3.2A | 0.9  | 0.1A | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| LIMA, PERU               | 1.1  | 2.2  | 3.9  | 3.5A | 0.4  | 0.3  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| CHACALTAYA, BOLIVIA      | 3.5A | 3.6A | 3.6  | 3.6A | 0.4  | 0.3  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| ANTOFAGASTA, CHILE       | 1.3  | 1.8  | 3.5  | 0.1A | 0.3A | 0.7  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| ISLA DE PASCUA-EASTER IS | 3.7  | 0.9A | 3.7  | 0.6  | 0.6  | 0.7  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| SANTIAGO, CHILE          | 3.1  | --   | 1.4  | 0.4  | 0.2A | 0.2A | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| PUERTO MONTT, CHILE      | 2.4  | --   | 1.2  | 1.5  | 0.7  | 0.5A | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| PUNTA ARENAS, CHILE      | 3.5  | 3.6  | 3.7  | 3.6A | 0.5A | 0.4  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| ANTARCTICA               | 3.5  | 3.4  | 3.4  | 3.4  | 0.2A | 0.2A | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |
| SOUTH POLE STATION       | 1.5  | 3.9  | 3.9  | 3.9  | 0.7  | 0.4  | 0.5  | 0.5  | 0.5   | 0.5  | 0.5  | 0.5  |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

SECTION - 137 CONCENTRATIONS IN SURFACE AIR DURING 1974  
(PENTACURIES / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| THULE, GREENLAND         | 3.6  | 1.2  | 2.3  | 4.6  | 3.4  | 3.3  | 2.0  | --   | 1.1  | 3.7  | 3.3  | 1.6  |
| KAP TOBIN, GREENLAND     | 3.2A | 1.2  | 1.2  | 2.7  | 2.7  | 1.6  | 1.2  | 1.2  | 3.9  | 1.3  | 3.4  | 1.1  |
| WOSKNEE, ONTARIO         | 3.3  | 3.7  | 1.1  | 2.6  | 2.6  | 4.8  | 3.6  | 2.2  | 1.2  | 3.5  | 3.5  | 6.7  |
| MELENA, MONTANA          | 3.7  | 1.5  | 2.5  | 5.8  | 7.0  | 6.8  | 4.9  | 6.3  | 1.8  | 1.3  | 1.4  | 1.1  |
| SALT LAKE CITY, UTAH     | --   | 1.9  | 4.6  | 8.0  | 13.1 | 9.7  | 4.7  | 3.9  | 2.5  | 1.5  | 1.9  | 1.5  |
| NEW YORK, NEW YORK       | 3.7  | 1.1  | 2.3  | 6.5  | 5.8  | 5.2  | 4.8  | 2.7  | 1.4  | 1.3  | 1.3  | 1.6  |
| ROCKY FLATS, COLORADO #1 | 3.5  | 2.1  | 4.3  | 7.7  | 3.3  | 6.0  | 3.1  | 3.2  | 1.5  | 1.1  | 1.5  | 1.7  |
| ROCKY FLATS, COLORADO #2 | 1.2  | 1.2  | 4.1  | 7.8  | 10.6 | 6.7  | 2.8  | 3.2  | 1.5  | 1.1  | 1.5  | 1.5  |
| ROCKY FLATS, COLORADO #3 | 1.6  | 3.2  | 6.2  | 10.3 | --   | --   | --   | --   | --   | --   | --   | --   |
| ROCKY FLATS, COLORADO #4 | --   | --   | --   | --   | 12.6 | 8.4  | 3.9  | 3.7  | 1.9  | 1.6  | 1.3  | 2.1  |
| STERLING, VIRGINIA       | 5.7A | 1.2A | 2.3  | 4.4  | --   | --   | --   | --   | --   | --   | --   | --   |
| RICHMOND, CALIFORNIA     | 2.5A | 1.3  | 2.3  | 3.5  | 4.0  | 3.5  | 2.5  | 2.9  | 1.4  | 1.4  | --   | 1.6  |
| MIAMI, FLORIDA           | 1.2  | 3.1  | 4.1  | 9.6  | 6.6  | 2.3  | 2.2  | 1.7  | 3.3  | 1.3  | 1.5  | 1.6  |
| MAUNA LOA, HAWAII        | 3.8  | 3.7  | 6.3  | 6.8  | 7.4  | 5.2  | 2.7  | 2.3  | 3.9  | 1.1  | 1.6  | 2.1  |
| SAN JUAN, PUERTO RICO    | 3.6  | 1.4  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| SALIDA, PANAMA           | --   | --   | --   | --   | 6.9  | 1.1  | 0.9  | 0.9  | 8    | 8    | 3.3  | 3.8  |
| VERTICA, VENEZUELA       | 3.3  | 1.3  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| PICO ESPESJO, VENEZUELA  | 3.9  | 1.9  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| LA AGUADA, VENEZUELA     | 8    | 1.8  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| GUAYAQUIL, ECUADOR       | 3.2  | 3.3  | 3.2  | 3.2  | 4    | 6.1A | 0.4A | 1.7  | 1.2  | 1.3A | 3.9  | 0.7  |
| LIMA, PERU               | 3.6  | 3.4A | 3.4  | 3.2  | 6.3  | 6.5  | 1.0  | 2.7  | 2.3  | 2.2  | 2.3  | 1.1  |
| CHACAYAYA, BOLIVIA       | 8    | 8    | 3.3A | 3.1A | 8    | 0.5A | 4.2A | 1.5  | 5.1  | 2.3A | 1.6A | 0.4  |
| ANTOFAGASTA, CHILE       | 3.5  | 3.7  | 3.3  | 3.4  | 0.2  | 6.3  | 1.4  | 2.6  | 1.9  | 2.3  | 1.3  | 1.3  |
| ISLA DE PASCUA-EASTER IS | 3.3  | 3.4A | 3.2  | 3.3  | 4    | 0.4  | 0.3  | 6.9A | 3.3A | 3.6  | 3.9  | 0.7  |
| SANTIAGO, CHILE          | 3.8  | 3.8  | 3.5  | 3.5A | 0.4  | 0.2  | 0.3A | 2.3  | 1.2A | 1.5  | 3.3  | 1.6  |
| PUERTO MONTT, CHILE      | 3.5  | 3.6  | 3.2A | 3.2  | 6.1  | 0.2  | 0.2A | 0.4A | 3.4  | 3.4  | 3.3  | 0.6  |
| PUNTA ARENAS, CHILE      | 3.2  | 1.3  | 3.2  | 8    | 0.2A | 0.2  | 6.1  | 0.2A | 0.4  | 0.2A | 3.3  | 0.7  |
| ANTARCTICA               | --   | 3.2  | 3.3  | 0.2  | 3.1  | 0.2A | 0.2  | 0.1A | 3.1A | 0.2A | 0.2A | 6.2  |
| SOUTH POLE STATION       | 3.7  | 3.5  | 3.5  | 8    | 3.7  | 6.2  | 6.2  | 0.3  | 0.3  | 1.4  | 0.4A | 6.4A |
| -- NO DATA               | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
H - ERROR GREATER THAN 100%



SECTION - 137 CONCENTRATIONS IN SURFACE AIR DURING 1975  
 (FEMTOGRAMS / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| THULE, GREENLAND         | 1.4  | 2.4  | 2.4  | 2.6  | 2.4  | 0.6  | --   | 0.2A | --   | 3.3  | --   | 0.2  |
| HARROW, ALASKA           | --   | --   | --   | --   | --   | --   | --   | --   | 0.2  | 0.2  | 0.4  | 0.2  |
| KAP TUNIA, GREENLAND     | 1.6  | 2.2  | 2.4  | 3.4  | 2.1  | 0.3  | C.5  | 0.4  | 0.4  | 3.5  | 0.3  | 0.4  |
| MOOSENEE, ONTARIO        | 1.1  | 1.2  | 2.2  | 2.6  | 1.3  | 1.7  | 1.3  | 0.7  | 0.4  | 0.3  | 0.2  | C.2A |
| MELENA, MONTANA          | 1.4  | 2.3  | 2.2  | 2.4  | 2.7  | --   | --   | --   | 3.5  | 3.2A | 3.3  | C.4  |
| SALT LAKE CITY, UTAH     | 2.1  | 3.3  | 3.1  | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| NEW YORK, NEW YORK       | 1.2  | 1.7  | 2.2  | 3.0  | 2.9  | 2.0  | 1.4  | 0.3  | 3.5  | 2.4A | 0.4  | 0.4  |
| ROCKY FLATS, COLORADO #1 | 2.2  | 3.5  | 3.3  | 4.7  | 4.0  | 3.7  | 1.6  | 1.0  | 3.9  | 3.5  | 3.5  | 0.4  |
| ROCKY FLATS, COLORADO #2 | 1.9  | 3.1  | 2.3  | 3.2  | --   | --   | 1.3  | 0.7  | 0.4  | 0.3  | 0.3  | C.3  |
| ROCKY FLATS, COLORADO #3 | 2.4  | 3.1  | 2.9  | 3.7  | --   | --   | --   | --   | --   | --   | --   | --   |
| PICANYO, CALIFORNIA      | 1.4  | 2.3  | 3.0  | 2.5  | 2.1  | 1.1  | 0.6  | 0.4  | 3.4  | 3.3A | 3.4  | 0.2  |
| MIAMI, FLORIDA           | 2.2  | 2.8  | 3.3  | 4.1  | 1.5  | 0.6  | C.7  | 0.4  | 3.2A | 0.4  | 0.4  | 0.4  |
| MAUNA LOA, HAWAII        | 2.7  | 3.4  | 2.4  | 3.3  | 2.4  | 2.2  | 1.4  | 0.6  | 0.5  | 0.4  | 0.4  | 0.4  |
| BALANTA, ALABAMA         | 3.9  | 1.2  | 1.4  | 1.3  | 1.6  | 0.4  | 0.4  | 0.2  | 3.1A | 0.4  | 0.4  | 0.4  |
| GUAYABUQUE, ECUADOR      | 3.5  | 3.3  | 2.2  | 2.1  | 0.1  | 0.4  | C.1A | 0.2  | 3.3A | 3.1  | 3.1A | 0.1  |
| LIMA, PERU               | 1.3  | 1.6  | 2.9  | 2.8  | C.5  | 0.4  | 0.5  | C.5  | 3.5  | 3.2  | 3.3  | 0.3  |
| CHACALTAYA, BOLIVIA      | 3.3A | 2.2A | 2.2  | 3.3A | 0.3  | 0.3  | 0.6  | 0.2A | 3.2A | 3.5  | 3.5  | 0.5  |
| ANTOFAGASTA, CHILE       | 1.6  | 1.1  | 3.3  | 0.7  | C.2A | --   | --   | --   | --   | --   | --   | 0.2A |
| ISLA DE PASCU-ESTER IS   | 2.5  | 2.5  | 2.7  | 3.4  | 0.4  | 0.5  | 0.3  | 0.2A | 3.3A | 3.2A | 3.5  | --   |
| SANTIAGO, CHILE          | 3.7A | 1.4  | 1.2  | 1.0  | C.8  | C.8  | --   | --   | 3.8  | 3.5  | 3.4  | --   |
| PUERTO MONTE, CHILE      | 2.5  | 1.2  | 1.2  | 3.6  | C.6  | 0.4  | 0.3A | 0.2  | 3.2  | 3.3  | 3.3  | C.2  |
| PUNTA ARENAS, CHILE      | 3.4  | 3.4  | 3.5  | 3.3  | C.3A | 0.1A | C.2A | C.2  | 3.1A | 3.1A | 0.2  | 0.1A |
| ANTARCTICA               | 3.2  | 3.3  | 3.3  | 3.4  | 0.2  | 0.2  | 0.3  | 0.2A | 3.2  | 3.1  | 0.1A | 0.1A |
| SOUTH POLE STATION       | 3.4  | 1.1  | 3.7  | 3.8  | 0.7  | C.2  | C.3  | 0.4  | 3.3  | 3.5  | 3.5  | C.5  |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
 A - ERROR BETWEEN 20% AND 100%  
 H - ERROR GREATER THAN 100%

SECTION - 137 CONCENTRATIONS IN SURFACE AIR DURING 1976  
(FEMTOCURIES / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| THULE, GREENLAND         | --   | 3.3  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| BARRON, ALASKA           | 3.2  | 3.4  | 3.4  | 0.3  | 0.3A | 0.2  | C.1A | 8    | 0.1A | 3.1A | 0.2A | --   |
| KAP TOBIN, GREENLAND     | 3.3  | 3.3  | 3.3  | 0.5  | 0.4  | 0.2A | 0.2A | 0.1A | 3.2  | 8    | 3.4  | 0.3  |
| MOOSJONEE, ONTARIO       | 3.3  | 3.4  | 3.6  | 3.4  | 0.5  | 0.6  | 0.5  | 0.4  | 3.2  | 3.3A | 0.4  | 0.4  |
| MELENA, MONTANA          | 3.5  | 3.5  | 3.5  | 0.7  | 0.7  | 0.7  | 0.6  | 0.3  | 3.4  | 3.7  | 3.3  | 0.4  |
| CHESTER, NEW JERSEY      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| NEW YORK, NEW YORK       | 3.4  | 1.6  | 3.6  | 0.7  | 0.8  | 0.5  | C.6  | 0.5  | 0.4  | 3.3A | 0.6  | 0.3  |
| ROCKY FLATS, COLORADO #1 | 3.5  | 3.5  | 1.2  | 1.1  | 0.9  | 0.8  | 0.5  | 0.4  | 3.3  | 3.3  | 0.5  | 0.4  |
| ROCKY FLATS, COLORADO #2 | 0.4  | 3.5  | 3.8  | 0.8  | 0.7  | 0.6  | 0.4  | 0.3  | 3.3  | 3.8  | 3.5  | 0.4  |
| ROCKY FLATS, COLORADO #4 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| RICHMOND, CALIFORNIA     | 3.5  | 3.4  | 3.5  | 3.6  | 0.7  | 0.4  | 0.2  | 0.2  | 3.2  | 3.8  | 3.6  | 0.4  |
| MIAMI, FLORIDA           | 3.6  | 3.8  | 3.6  | 1.0  | 0.6  | 0.3  | C.4A | 0.3A | 3.2  | 3.5  | 3.3  | 0.5A |
| MAUNA LOA, HAWAII        | 3.8  | 3.7  | 3.8  | --   | --   | --   | --   | --   | 0.1A | 1.4  | 0.7  | 0.3A |
| MAUNA LOA DOWNSLOPE      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 0.3A |
| MAUNA LOA UPSLOPE        | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| SALCADA, PANAMA          | 3.1A | 3.3  | 3.3  | 3.4  | 0.3A | 0.1A | 0.3A | 0.2  | 3.1A | 3.1A | 3.3A | 0.1A |
| GUAYAQUIL, ECUADOR       | 3.1  | 3.1  | 3.1A | 8    | 8    | 0.1A | 0.1  | 8    | 3.1A | 3.1A | 3.1A | 0.1A |
| LIMA, PERU               | 3.4  | 3.4  | 3.3A | 0.3A | 0.1A | 0.1A | 0.2A | 0.3  | 3.4  | 3.2A | 3.3  | 0.1A |
| TUTUILA, SAMOA           | --   | --   | --   | 3.2A | 0.1A | 0.1A | 0.1A | 0.2A | 0.2  | 3.1A | 3.1A | 0.1A |
| CHACALTAYA, BOLIVIA      | 3.3  | 3.2A | 3.2A | 0.1A | 0.2  | 8    | C.4A | 0.3A | 0.5  | 0.3  | 0.4A | 0.1A |
| ANTOFAGASTA, CHILE       | --   | --   | --   | 0.2A | 0.2  | C.2  | C.2  | 0.2  | 3.3  | 0.2  | 3.2  | 0.1A |
| ISLA DE PASCUA-EAST- IS  | 3.4  | 3.3  | 3.2A | 8    | --   | --   | C.2A | 0.1  | 3.2  | 0.1  | 3.2  | 0.2A |
| SANTIAGO, CHILE          | 3.7A | 3.4A | 3.5  | 3.3  | 0.2  | 0.3  | 0.6A | 3.1  | 3.2A | 0.3  | 3.2A | 0.4  |
| PUERTO MONTT, CHILE      | 3.4  | 3.5  | 3.3A | 0.2  | 0.1A | 0.4  | --   | 0.1  | 3.3  | 0.1A | 3.2  | 0.1A |
| PUNTA ARENAS, CHILE      | 3.2  | 3.2  | 3.2A | 0.2A | 0.1  | 0.2A | 0.1  | 0.1A | 3.2A | 0.2A | 3.1A | 0.1  |
| ANTARCTICA               | 3.2A | 3.1  | 3.1A | 8    | 8    | 8    | 0.1A | 8    | 3.2A | 3.2A | 3.1A | 0.1  |
| SOUTH POLE STATION       | 3.6  | 3.3A | 0.3A | 0.3  | 0.2  | 8    | 0.1A | 0.1A | 0.1  | 0.2  | 0.2A | 8    |
| -- NO DATA               | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |

ERRORS ARE LESS THAN 20% EXCEPT:  
A - HAD TO BE REPEATED  
B - ERROR GREATER THAN 100%

CESTIM - 137 CONCENTRATIONS IN SURFACE AIR DURING 1977  
(FENTIGRAMS / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| BARROW, ALASKA           | 3.2  | 3.4  | 3.2  | 3.4  | 0.5  | 0.6  | --   | 0.8  | 3.5  | 1.3  | 1.4  | 1.2  |
| RAP TOBIN, GREENLAND     | 3.3  | 3.3  | 3.5  | 3.7  | 0.6  | 0.6  | --   | 0.7  | 1.1  | 1.3  | 1.5  | 1.7  |
| MOUSNEE, ONTARIO         | 3.2  | 3.2  | 3.3  | 3.9A | 1.5  | 2.2  | 2.0  | 1.3  | 1.7  | 1.3  | 1.1  | 1.0  |
| MELENA, MONTANA          | 3.2  | 3.5  | 3.5  | 2.1  | 2.7  | 3.6  | 1.9  | 3.5  | 2.7  | 2.2  | 1.2  | 1.3  |
| BEAVERTON, OREGON        | --   | --   | --   | --   | --   | --   | 1.5  | 2.1  | 1.7  | 2.1  | 1.2  | 1.0  |
| CHESTER, NEW JERSEY      | 3.6  | 3.2A | 3.5  | 1.3  | 3.2  | 2.6  | 2.4  | 1.3  | 1.3  | 1.9  | 1.8  | 1.1  |
| NEW YORK, NEW YORK       | 3.3  | 3.3  | 3.5  | 1.4  | 3.0  | 4.5  | 2.5  | 2.7  | 1.9  | 2.2  | 1.6  | 1.6  |
| ROCKY FLATS, COLORADO    | 3.3  | 3.5  | 1.2  | 1.6  | 5.6  | 3.6  | 3.5  | 2.9  | 5.3  | 3.5  | 2.1  | 1.6  |
| ROCKY FLATS, COLORADO    | 3.4  | 3.5  | 1.1  | 1.8  | 5.3  | 3.7  | 3.5  | --   | 6.9  | 6.1  | 2.1  | 1.6  |
| RICHMOND, CALIFORNIA     | 3.3  | 3.5  | 3.4  | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| LIVERMORE, CALIFORNIA    | --   | --   | --   | --   | 2.7  | 3.7  | 6.3  | 6.1  | 3.4  | 3.1  | 2.3  | 2.0  |
| MIAMI, FLORIDA           | 3.4  | 3.5  | 1.2  | 2.4  | 2.7  | 2.0  | 1.5  | 1.4  | 0.3  | 6.0  | 2.5  | 2.5  |
| MAUNA LOA, HAWAII        | 3.5  | --   | --   | --   | --   | --   | --   | --   | 7.3  | 2.6  | --   | --   |
| MAUNA LOA DOMESTOPE      | --   | 3.3  | 2.4  | 2.1  | --   | --   | --   | --   | --   | --   | 1.9  | 2.0  |
| MAUNA LOA UPSLOPE        | --   | 1.1  | 2.9A | 2.5  | --   | --   | --   | --   | --   | --   | 2.3A | 2.3  |
| PALENA, PANAMA           | 9    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| GUAYAQUIL, ECUADOR       | 3.1  | 3.1A | 3.1A | 0.3A | 2.1  | 0.2A | 8    | 9    | 3.1  | 0.2  | 0.1  | 0.12 |
| LIMA, PERU               | 3.3A | 3.3  | 3.2A | 0.3  | 9    | 0.1A | 0.2A | 3.2  | 3.3  | 0.3  | --   | 0.3  |
| TUTUILA, SAMOA           | 9    | 3.1A | 3.2  | 3.1A | 0.1  | 9    | 8    | 3.2A | 3.1  | 3.3A | 3.4A | --   |
| CHACALTAYA, BOLIVIA      | 3.2  | 3.1A | 8    | 9    | 2.3  | 0.3  | 0.4A | 3.3A | 2.4  | 3.4A | 3.2A | 3.2  |
| ANTOFAGASTA, CHILE       | 3.3  | 3.3  | 3.1  | 3.1  | 0.1A | 0.1A | 0.2A | 3.3  | 3.3  | 9    | 3.1A | 0.1  |
| ISLA DE PASCUA-EASTER IS | 3.3A | 3.2  | 3.2A | 3.1A | 0.1A | 1    | 0.2A | 0.1A | 3.2  | 3.1A | 3.4A | 3.2A |
| SANTIAGO, CHILE          | 3.4  | 3.4A | 3.3  | 3.3A | 0.2  | 0.1A | 1    | 1    | 4    | 3.3  | 3.2A | 3.32 |
| PUERTO MONTE, CHILE      | 3.3  | 3.2A | 3.2A | 3.1A | 0.1A | 9    | 9    | 4    | 1    | 4    | 3.1A | 3.2  |
| PUNTA ARENAS, CHILE      | 3.1A | 3.2A | 3.2  | 3.1A | 0.1  | 0.1A | 1    | 0.1A | 1    | 3.1A | 8    | 9    |
| ANTARCTICA               | 9    | 3.1A | 8    | 8    | 0.1A | 8    | 8    | 0.1A | 3.1A | 3.1A | 1    | 9    |
| SOUTH POLE STATION       | 3.4A | 8    | 3.2A | 8    | 8    | 8    | 0.2  | 3    | 9    | 8    | 8    | 0.4  |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

HASL-390

PERCENTAGE - 90 CONCENTRATIONS IN SURFACE AIR DURING 1963  
(PERCENTAGES / CUBIC METER)

| SITE                  | JAN.  | FEB.   | MAR.  | APR.   | MAY    | JUNE   | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.  |
|-----------------------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| ISLE, JAPAN           | 21.80 | 64.20  | 54.70 | 124.00 | 77.60  | 22.80  | 41.50 | 39.70 | 29.60 | 20.10 | 24.50 | 25.00 |
| MINISWEE, CANADA      | 13.50 | 41.90  | 43.40 | 67.30  | 40.50  | 46.60  | 61.20 | 52.20 | 79.30 | 22.10 | 15.50 | 23.10 |
| MIN VIKAR, NEW YORK   | --    | 37.90  | 58.40 | 88.90  | 57.60  | 88.90  | --    | 77.40 | 50.40 | --    | 50.40 | --    |
| SPRINGFIELD, VIRGINIA | 23.50 | 116.00 | 52.50 | 101.00 | 103.00 | 122.00 | 90.10 | 76.70 | 82.30 | 90.00 | 23.00 | 8.70  |
| MIAMI, FLORIDA        | 33.20 | 65.00  | 61.10 | 112.00 | 44.40  | 37.60  | 50.10 | 27.10 | 17.20 | 67.10 | 22.00 | 27.00 |
| WALMA, CALIFORNIA     | 51.30 | 73.80  | 44.00 | 45.70  | 30.40  | 27.20  | 41.00 | 33.70 | 17.50 | 27.70 | 10.00 | 10.00 |
| SAN JUAN, PUERTO RICO | 22.50 | 17.70  | 41.70 | 27.30  | 42.60  | 33.40  | 89.70 | 21.30 | 11.00 | 50.00 | 10.00 | 10.00 |
| MINNEAPOLIS, MINN.    | 25.70 | 16.20  | 43.60 | 62.30  | 23.20  | 4.00   | 9.20  | 1.00  | 1.00  | 2.00  | 1.00  | 1.00  |
| ALABAMA, ALABAMA      | --    | --     | --    | 1.00   | 1.00   | 1.10   | 1.30  | 1.20  | 1.00  | 2.00  | 1.00  | 1.00  |
| LEWIS, TEXAS          | 8.07  | --     | --    | 3.70   | 2.20   | 2.80   | 2.50  | 6.80  | 8.00  | 1.00  | 1.00  | 1.00  |
| CHICAGO, ILLINOIS     | 2.52  | 1.26   | 2.03  | --     | 2.03   | 3.20   | 5.10  | 14.00 | 14.70 | 2.00  | 2.00  | 2.00  |
| ANTWERP, BELGIUM      | 3.16  | 6.19   | 6.07  | 4.49   | 2.10   | 2.37   | 4.70  | 3.70  | 5.40  | 2.00  | 2.00  | 2.00  |
| SANTIAGO, CHILE       | 3.76  | 5.25   | 4.07  | 1.06   | 2.01   | 2.74   | 2.80  | 8.10  | 3.00  | 7.00  | 3.00  | 3.00  |
| PUERTO MONTE, CHILE   | 4.03  | 5.43   | 5.63  | 3.10   | 2.13   | 1.00   | 1.30  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| WYOMING, WYOMING      | 1.53  | 4.74   | 2.91  | 2.23   | 1.16   | 1.52   | 1.10  | 1.20  | 1.00  | 1.00  | 1.00  | 1.00  |

-- NO DATA

NUMBERS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%



STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1964  
(PEMTOCITIES / CUBIC METERS)

| SITE                    | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| THULE, GREENLAND        | 33.30 | 30.80 | 42.80 | 45.60 | 50.80 | 27.20 | 4.13  | 25.10 | 19.80 | 10.80 | 12.40 | 13.30 |
| MOOSMEE, ONTARIO        | 23.30 | 29.50 | 38.60 | 45.20 | 45.50 | 52.70 | 37.30 | 14.90 | 10.20 | 9.05  | 5.89  | 8.43  |
| SEATTLE, WASHINGTON     | 14.40 | 27.00 | 22.40 | 30.70 | 47.40 | 19.80 | 14.50 | 11.10 | 12.90 | 11.80 | 6.90  | 4.38  |
| APPLETON, WISCONSIN     | 15.00 | 17.00 | 52.80 | 41.90 | 69.90 | 69.80 | 43.30 | 21.60 | 13.40 | 13.70 | 10.70 | 6.79  |
| WESTWOOD, NEW JERSEY    | 16.90 | 27.90 | 39.20 | 52.60 | 69.60 | 44.60 | 33.20 | 31.80 | 16.50 | 14.60 | 9.80  | 10.50 |
| NEW YORK, NEW YORK      | 22.00 | 34.40 | 39.40 | 35.20 | 82.30 | 84.20 | 35.60 | 30.60 | 19.20 | 14.60 | 15.10 | 9.78  |
| STERLING, VIRGINIA      | 22.20 | 32.60 | 46.70 | 45.70 | 19.20 | 75.40 | 31.30 | 23.60 | 19.50 | 12.70 | 13.40 | 9.10  |
| PALO ALTO, CALIFORNIA   | 22.50 | 41.50 | 38.30 | 53.50 | 21.70 | 22.40 | 22.70 | 13.10 | --    | 7.79  | 13.70 | 8.07  |
| MIDWEST CITY, OKLAHOMA  | 28.10 | 35.00 | 40.90 | 56.40 | 35.50 | 24.10 | 32.40 | 19.60 | 12.00 | 16.19 | 14.90 | 13.00 |
| CHATTANOOGA, TENNESSEE  | 21.90 | 21.00 | 38.40 | 76.80 | 89.40 | 59.90 | 32.80 | 21.10 | 25.10 | 14.50 | 11.10 | 11.50 |
| MIAMI, FLORIDA          | 42.80 | 53.70 | 61.60 | 54.60 | 56.20 | 26.60 | 22.10 | 13.50 | 8.48  | 10.90 | 11.90 | 17.50 |
| MAUNA LOA, HAWAII       | 42.60 | 96.20 | 49.90 | 88.90 | 94.80 | 42.90 | 34.10 | 15.60 | 12.60 | 8.96  | 9.26  | 9.10  |
| SAN JUAN, PUERTO RICO   | 25.30 | 19.30 | 46.60 | 35.60 | 42.70 | 27.20 | 27.60 | 14.90 | 7.81  | 5.55  | 7.76  | 10.50 |
| MIRAFLORES, PANAMA C.Z. | 12.70 | 21.90 | 35.60 | 30.10 | 19.10 | 17.20 | 3.78  | 3.10  | 0.92  | 0.48  | 7.46  | 5.78  |
| GUAYAQUIL, ECUADOR      | 1.75  | 2.98  | 7.71  | 4.02  | 1.28  | 1.41  | 1.62  | 1.65  | 2.63  | 2.11  | 3.13  | 4.40  |
| LIMA, PERU              | 3.87  | 3.42  | 3.43  | 2.74  | 2.15  | 3.33  | 3.92  | 5.53  | 9.91  | 9.16  | 7.28  | 9.56  |
| CHACALTAYA, BOLIVIA     | 1.38  | 1.03  | 1.16  | 1.71  | 4.58  | 5.31  | 9.62  | 8.01  | 8.81  | 7.74  | 4.54  | 3.60  |
| ANTOFAGASTA, CHILE      | 3.16  | 2.71  | 2.27  | 3.07  | 2.48  | 4.07  | 3.61  | 8.43  | 7.76  | 7.36  | 5.32  | 7.70  |
| SANTIAGO, CHILE         | 4.09  | 2.32  | 3.09  | 2.92  | 2.93  | 3.13  | 4.49  | 4.94  | 7.74  | 6.89  | 7.21  | 7.86  |
| PUERTO MONTT, CHILE     | --    | 4.75  | 2.15  | 2.08  | 2.23  | 1.80  | 7.01  | 1.61  | 2.98  | 3.51  | 3.55  | 5.42  |
| PUNTA ARENAS, CHILE     | 1.04  | 1.24  | 1.03  | 1.24  | 1.32  | 0.44  | 0.91  | 2.54  | 1.61  | 2.33  | 1.86  | 3.52  |
| SOUTH POLE STATION      | --    | 2.05  | 1.57  | 1.49  | 2.00  | 1.89  | 2.00  | 0.76  | 2.62  | 1.60  | 3.22  | 4.10  |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SLUDGE AND DRINKING WATER  
(PERCENTAGES / CLMIC METER)

| SITE                    | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP. | OCT. | NOV. | DEC. |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| THREE, GREENLAND        | 17.50 | 11.90 | 29.10 | 20.60 | 19.10 | 8.56  | 9.65  | 7.60  | 9.91 | 6.61 | 8.46 | 9.16 |
| BRAVO OCEAN STATION     | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | 1.87 | --   |
| CHARLIE OCEAN STATION   | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | 6.61 | 1.60 |
| MOOSE, ONTARIO          | 8.96  | 11.70 | 11.40 | 14.40 | 19.60 | 13.40 | 9.47  | 6.26  | 2.54 | 2.62 | 2.37 | 2.66 |
| SEATTLE, WASHINGTON     | 29.70 | 10.70 | 29.70 | 12.80 | 12.77 | 16.40 | 9.29  | 9.53  | 1.47 | 3.60 | 1.23 | 2.76 |
| APPLETON, WISCONSIN     | 12.10 | 17.60 | 17.00 | 17.20 | 20.77 | 22.00 | 12.00 | 9.92  | 9.67 | 6.97 | 4.17 | 3.56 |
| WESTWOOD, NEW JERSEY    | 12.90 | 19.50 | 18.40 | 22.00 | 21.10 | 16.70 | 16.40 | 17.27 | 9.76 | 5.45 | 1.12 | 6.65 |
| NEW YORK, NEW YORK      | 11.60 | 18.00 | 17.50 | 20.30 | 21.10 | 24.40 | 17.40 | 9.85  | 6.44 | 4.55 | 9.10 | 3.37 |
| STERLING, VIRGINIA      | 13.10 | 17.00 | 19.20 | 19.40 | 19.37 | 13.70 | 16.20 | 7.33  | 6.10 | 6.20 | 6.67 | 6.27 |
| PALO ALTO, CALIFORNIA   | 9.39  | 12.00 | 29.53 | 16.40 | 16.60 | 7.33  | 9.94  | 9.74  | 7.91 | 6.63 | 6.63 | 3.34 |
| NORMAN, OKLAHOMA        | --    | --    | --    | --    | --    | --    | 9.09  | 9.13  | 9.29 | 6.63 | 5.36 | 9.66 |
| WEST CITY, OKLAHOMA     | 16.79 | 16.79 | 20.30 | 20.60 | 21.60 | 28.10 | --    | --    | --   | --   | --   | --   |
| CHATTANOOGA, TENNESSEE  | 16.70 | 17.10 | 11.17 | 21.40 | 22.70 | 16.10 | 9.91  | 1.66  | 9.46 | 5.89 | 6.22 | 6.71 |
| ECMO OCEAN STATION      | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | 6.63 | 4.52 |
| MIAMI, FLORIDA          | 19.40 | 17.60 | 17.60 | 26.00 | 27.60 | 12.70 | 9.17  | 4.03  | 3.39 | 4.33 | 6.80 | 5.03 |
| NAUVA LOA, HAWAII       | 29.30 | 40.40 | 27.60 | 22.60 | 16.40 | 14.40 | 13.33 | 7.67  | 6.66 | 6.36 | 6.19 | 6.65 |
| SAN JUAN, PUERTO RICO   | 11.10 | 12.80 | 12.10 | 21.30 | 7.55  | 11.20 | 6.54  | 3.36  | 1.75 | 1.91 | 1.60 | 2.13 |
| MIRAFLORES, PANAMA C.P. | 6.92  | 7.18  | 9.64  | 11.60 | 4.60  | 2.41  | --    | --    | --   | --   | --   | --   |
| BALBOA, PANAMA          | --    | --    | --    | --    | --    | --    | 2.65  | 1.50  | 3.67 | 2.69 | 3.49 | 1.69 |
| GUAYQUIL, ECUADOR       | 2.77  | 1.66  | 1.36  | 3.46  | 2.49  | 6.41  | 0.63  | 0.73  | 0.40 | 1.20 | 1.55 | 1.60 |
| LIMA, PERU              | 2.59  | 4.16  | 6.72  | 2.34  | 2.15  | 2.14  | 2.37  | 3.62  | 9.96 | 9.23 | 4.07 | 9.97 |
| CHACALTAYA, BOLIVIA     | 7.12  | 2.00  | 2.76  | 1.36  | 1.36  | 2.53  | 2.15  | 3.10  | 5.11 | 4.16 | 2.63 | 5.36 |
| ANTOFAGASTA, CHILE      | 6.19  | 5.61  | 6.26  | 3.51  | 1.73  | 2.41  | 6.94  | 6.62  | 6.66 | 3.10 | 6.22 | 2.63 |
| SANTIAGO, CHILE         | 7.31  | 6.79  | 5.19  | 3.24  | 3.14  | 1.95  | 3.71  | 2.16  | 6.76 | 3.44 | 4.04 | 2.77 |
| PUERTO MONTT, CHILE     | 9.64  | 5.05  | 1.37  | 2.33  | 2.03  | 1.53  | 1.29  | 1.16  | 1.66 | 1.67 | 1.25 | 2.48 |
| PUNTA ARENAS, CHILE     | 2.35  | 3.77  | 2.95  | 2.42  | 1.66  | 1.09  | 1.03  | 0.74  | 2.04 | 0.93 | 0.74 | 1.14 |
| SOUTH POLE STATION      | 5.84  | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   |

-- NO DATA  
ERRORS ARE LESS THAN 20% EXCEPT  
A -- ERROR BETWEEN 20% AND 100%  
B -- ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1966  
(PERCENTAGES / CUBIC METERS)

| SITE                      | JAN.  | FEB.  | MAR.  | APR.  | MAY    | JUNE   | JULY   | AUG.  | SEP.   | OCT.  | NOV.  | DEC.  |
|---------------------------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|-------|
| THULE, GREENLAND          | --    | 10.60 | 10.80 | --    | 5.94   | 5.77   | 3.21   | 2.53  | 2.22   | 2.04  | 1.14  | 2.30  |
| BRAVO OCEAN STATION       | --    | 3.96  | 5.68  | 9.42  | 2.70   | 3.17   | 1.71   | 1.84  | 3.88A  | 3.41  | 0.67  | 0.75  |
| CHARLIE OCEAN STATION     | --    | 2.37  | 6.17  | 6.90  | 3.79   | 2.46   | 1.44   | 1.95  | 3.98   | 7.73  | 1.08  | 0.67  |
| MOOSEHOLE, ONTARIO        | 4.00  | 4.99  | 5.16  | 5.36  | 7.17   | 6.10   | 6.15   | 2.43  | 1.71   | 1.12  | 1.57  | 0.78  |
| SEATTLE, WASHINGTON       | 3.33  | 3.90  | 4.81  | 6.31  | 4.44   | 4.15   | 2.52   | 2.23A | 1.48   | 2.96  | 1.53  | 0.88  |
| DELTA OCEAN STATION       | --    | 4.13  | 7.18  | 6.08  | 6.66   | 5.18   | 3.22   | 1.44  | 1.88   | 1.00  | 1.22  | 0.73  |
| WESTWOOD, NEW JERSEY      | 5.25  | 5.64  | 9.25  | 7.92  | 10.40  | 14.30  | 8.85   | 3.39  | 2.48   | --    | 1.19  | --    |
| NEW YORK, NEW YORK        | 4.26A | 3.54  | 8.10  | 7.72  | 11.20A | 10.70A | 8.32A  | 4.03A | 2.70   | 1.93  | 2.05A | 1.31A |
| STERLING, VIRGINIA        | 4.14  | 4.65  | 7.15  | 5.53  | 11.50  | 11.10  | 7.50   | 3.72  | 2.24   | 1.86  | 1.77  | 1.79  |
| ECHO OCEAN STATION        | --    | 7.66  | 7.93  | 6.79  | 10.00  | 2.39   | --     | 2.27  | 1.94   | 0.92  | 1.09  | 0.77  |
| MIAMI, FLORIDA            | 5.56  | 5.26  | 8.99  | 13.30 | 8      | 5.17   | 2.53   | 0.44  | 3.78   | 1.29  | 3.05  | 2.17  |
| BIMINI, BAHAMAS           | --    | --    | --    | --    | --     | --     | 6.55   | 1.89  | 1.60   | 3.07  | 3.84  | 2.23  |
| MAUNA LOA, HAWAII         | 8.07  | 8.40  | 16.50 | 14.00 | 14.10  | 9.86   | 6.84   | 2.98  | 1.94   | 1.10  | 1.97  | 3.60  |
| SAN JUAN, PUERTO RICO     | 2.53  | 3.85  | 7.12  | 5.41  | 5.06   | 6.07   | 2.59   | 2.43  | 1.22   | 0.52  | 1.29  | 1.32  |
| SALBOA, PANAMA            | 2.67  | 4.20  | 4.90  | 3.81  | 1.30   | 0.30   | 0.45   | 0.48  | 3.10A  | 0.08A | 0.75  | 0.74  |
| GUAYAGUIL, ECUADOR        | 3.85  | 0.99  | 0.55  | 0.52  | 0.48   | 0.69   | 1.05   | 1.47  | 7.72   | 0.93  | 2.42  | 1.43  |
| LIMA, PERU                | 3.47  | 3.18  | 2.11  | 1.84  | 1.13   | 1.09   | 2.90   | 7.06  | 2.94   | 5.00  | 4.81  | 2.85  |
| CHACALTAYA, BOLIVIA       | 1.49  | 0.88  | 1.40  | 1.04  | 1.29   | 2.44   | 5.90   | 2.56  | 11.63A | 4.22  | 6.07  | 3.43  |
| ANTOFAGASTA, CHILE        | 3.25  | 2.49  | 1.48  | 1.33  | 1.16   | 1.09   | 2.42   | 1.78  | 2.22   | 5.04  | 2.10  | 1.53  |
| ISLA DE PASCUA-EASTER IS. | --    | --    | 0.89A | 1.40  | 0.47   | 2.58   | 0.95   | 1.32  | 3.57   | 1.05  | 1.29  | 1.33  |
| PORTILLO, CHILE           | --    | --    | --    | --    | 3.38   | 2.09   | 58.70A | 11.00 | --     | --    | --    | 18.40 |
| SANTIAGO, CHILE           | 3.74  | 4.50  | 2.35  | 1.98A | 1.38   | 1.08   | 2.70   | 2.18  | 1.53   | 2.10  | 1.23  | 2.31  |
| PUERTO MONTT, CHILE       | 2.31  | 2.29  | 1.37  | 1.24  | 0.74   | 0.66A  | 0.61   | 1.38  | 3.74   | 0.83  | 1.93  | 0.72  |
| PUNTA ARENAS, CHILE       | 1.17  | 1.12  | 1.30  | 0.78  | 0.54   | 0.54   | 0.64   | 0.83  | 3.56   | 0.30  | 0.40A | 0.50  |
| ANTARCTICA                | 0.88  | 1.58  | 0.93  | 0.95  | 0.58   | 0.47   | 0.75   | 0.54  | 3.45   | 0.44  | 3.38  | 0.51  |

-- NO DATA

FIGURES ARE LESS THAN 2% EXCEPT:  
A - WHEN SURFACE AIR IS LESS THAN 100%  
B - WHEN SURFACE AIR IS GREATER THAN 100%



STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1967  
(PICOGRAMS / CUBIC METER)

| SITE                     | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY  | AUG. | SEP.  | OCT.  | NOV.  | DEC.  |
|--------------------------|-------|------|------|------|------|------|-------|------|-------|-------|-------|-------|
| THULE, GREENLAND         | 2.69  | 3.15 | 4.02 | 3.92 | 2.33 | 0.50 | 0.82  | 0.72 | 3.63  | 0.39  | 0.368 | 0.63  |
| BRAVO OCEAN STATION      | 3.62  | --   | 1.14 | 1.34 | 1.24 | 1.47 | 0.78  | 0.49 | 3.53  | 0.36  | 0.26  | 3.69  |
| CHARLIE OCEAN STATION    | --    | --   | 1.32 | 1.87 | 1.46 | 1.12 | --    | 0.51 | 3.61  | 3.44  | 3.40  | 0.69  |
| PODSOMME, ONTARIO        | 3.99  | 2.29 | 1.10 | 1.11 | 2.46 | 2.35 | 1.71  | 1.39 | 1.03  | 0.734 | 3.724 | 0.34  |
| SEATTLE, WASHINGTON      | 1.30  | 1.86 | 2.27 | --   | --   | 2.01 | 1.75  | --   | --    | --    | --    | --    |
| DELTA OCEAN STATION      | 1.91  | 1.76 | 1.53 | --   | 1.34 | 1.59 | 1.21  | 1.01 | 1.59  | 0.55  | 3.63  | 3.63  |
| WESTWOOD, NEW JERSEY     | 1.58  | 1.16 | 2.03 | --   | 4.38 | 3.02 | 2.08  | --   | --    | --    | --    | --    |
| NEW YORK, NEW YORK       | 1.894 | 3.43 | 3.00 | --   | 3.85 | 3.43 | 1.95  | 1.53 | 1.65  | 1.10  | 0.484 | 3.744 |
| STERLING, VIRGINIA       | 1.46  | 2.11 | 2.11 | --   | 1.00 | 2.94 | 1.59  | 1.16 | 3.46  | 0.51  | 0     | 0.69  |
| ECHO OCEAN STATION       | 2.61  | 1.99 | 2.11 | --   | 2.14 | 2.60 | 2.01  | 0.95 | 3.45  | 0.77  | 0.54  | 0.61  |
| MIAMI, FLORIDA           | 3.77  | 3.59 | --   | --   | 3.05 | 0.96 | 1.55  | 0.72 | 3.69  | 0.69  | 0     | 1.09  |
| SIMINI, SAMOAS           | 2.83  | --   | 5.14 | --   | --   | 1.49 | 1.50  | 0.72 | 3.72  | 1.12  | 1.23  | 1.27  |
| MAUNA LOA, HAWAII        | 5.18  | 5.59 | 3.24 | --   | 2.74 | 1.40 | 1.43  | --   | 3.79  | 0.64  | 3.824 | 3.94  |
| SAN JUAN, PUERTO RICO    | 3.88  | --   | 3.23 | --   | 1.45 | 0.45 | 1.55  | 1.11 | 3.61  | 0.37  | 0.43  | 3.74  |
| BAHIA, PANAMA            | 3.49  | --   | 2.40 | --   | 1.40 | --   | 0.47  | 0.33 | 3.10  | 0.07  | 3.494 | 0.34  |
| GUAYQUIL, ECUADOR        | 3.26  | --   | 0.48 | --   | 0.27 | --   | 0.464 | 0.73 | 3.024 | 0.28  | 0.73  | 0.34  |
| LIMA, PERU               | 1.41  | --   | 0.70 | --   | 0.43 | --   | 1.11  | --   | 1.29  | 1.45  | 0.60  | 0.61  |
| MACALAYA, BOLIVIA        | 3.78  | 1.44 | 0.11 | --   | 0.72 | 1.30 | 1.64  | 2.62 | 3.91  | 1.19  | 0.85  | 3.44  |
| ANTOFAGASTA, CHILE       | --    | 1.48 | 0.72 | --   | 0.73 | 4.82 | 1.88  | 1.01 | 1.33  | 1.044 | 1.02  | 1.19  |
| ISLA DE PASCUA-EASTER IS | 1.00  | 0.99 | 0.93 | --   | --   | --   | --    | 0.55 | --    | 0.69  | 0.96  | 0.81  |
| PORTILLO, CHILE          | 3.36  | --   | 1.17 | --   | 1.79 | --   | --    | --   | --    | --    | --    | --    |
| SANTIAGO, CHILE          | 1.01  | --   | 1.14 | --   | 0.72 | 1.97 | 1.14  | 1.42 | 1.52  | 1.12  | 1.14  | 0.334 |
| PLEATO MONTT, CHILE      | 1.29  | --   | 1.02 | --   | 0.48 | --   | 0.90  | 0.52 | 3.37  | 0.51  | 3.52  | 0.79  |
| PLATA ARENAS, CHILE      | 3.94  | --   | 3.90 | --   | 0.43 | 0.25 | 0.32  | 0.13 | 1.214 | 0.37  | 0.29  | 0.43  |
| ANTARCTICA               | 3.38  | 0.82 | 0.59 | --   | 0.30 | 0.36 | 0.24  | 0.24 | 3.36  | 0.22  | 0.25  | --    |

-- NO DATA

ERRORS ARE LESS THAN 10% EXCEPT:  
A - ERROR PLUS OR MINUS 10%  
B - ERROR GREATER THAN 100%



STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1958  
(PENTACHTS / CUBIC METER)

| SITE                     | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUNE | JULY  | AUG.  | SEP. | OCT. | NOV.  | DEC. |
|--------------------------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|------|
| THULE, GREENLAND         | 1.18  | 1.82  | 2.74  | 2.04  | 1.95  | 1.77 | 1.41  | 2.33  | 1.85 | 0.81 | 1.00  | 1.72 |
| BRAVO OCEAN STATION      | 3.65  | 0.55  | 1.57  | 1.06  | 1.34  | 1.28 | 0.85  | 0.81  | 3.76 | 0.71 | 3.51  | 0.55 |
| CHARLIE OCEAN STATION    | 3.79  | 1.19  | 1.47  | 1.44  | 1.83  | 1.53 | 1.07  | --    | 1.06 | 0.49 | 0.69  | 0.46 |
| MONDOWE, ONTARIO         | 3.80  | 1.31  | 2.81  | 3.53  | 4.06  | 4.20 | 2.71  | 2.53  | 2.14 | --   | 0.48  | 0.82 |
| DELTA OCEAN STATION      | 1.91  | --    | 2.16  | 3.16  | 2.50  | 2.32 | 2.04  | 2.17  | 1.18 | 0.96 | --    | 0.61 |
| NEW YORK, NEW YORK       | 1.424 | 2.044 | 3.39  | 4.484 | 4.95  | 3.10 | 3.714 | 2.504 | 2.74 | 1.32 | 0.87  | 1.12 |
| STERLING, VIRGINIA       | --    | 2.25  | 3.40  | 4.89  | 4.12  | 4.55 | 4.11  | 2.34  | 2.37 | 1.70 | 1.09  | 1.22 |
| ECHO OCEAN STATION       | 1.23  | --    | 1.73  | 3.45  | 3.29  | 2.83 | 2.67  | 2.23  | 3.94 | 1.70 | 0.93  | 1.15 |
| MIAMI, FLORIDA           | 1.56  | 2.66  | 5.93  | 6.49  | 2.13  | 1.38 | 1.59  | 1.74  | 1.38 | 1.34 | 1.63  | 1.46 |
| ALBANY, BRANAS           | 2.15  | 3.24  | 4.11  | 5.28  | 2.55  | 1.28 | 1.72  | 2.31  | 3.71 | 3.75 | --    | --   |
| MAUNA LOA, HAWAII        | 2.57  | 1.38  | 3.70  | 6.80  | 5.18  | 5.80 | 3.08  | 2.65  | 2.23 | 1.07 | 0.66  | 1.30 |
| SAN JUAN, PUERTO RICO    | 1.19  | 1.54  | 4.20  | 6.48  | 2.60  | 2.23 | 2.64  | 1.91  | 1.32 | 1.42 | 0.53  | 0.97 |
| BALBOA, PANAMA           | 1.20  | 0.97  | 2.06  | 4.45  | 0.49  | 0.16 | 0.91  | 0.83  | 3.28 | 0.14 | 0.234 | 0.49 |
| GLAYAGUIL, ECLADOR       | 3.30  | 0.32  | 0.24  | 0.19  | 0.19  | 0.16 | 0.16  | 1.16  | 1.33 | 0.47 | 0.30  | 1.47 |
| LIMA, PERU               | 0.72  | 0.69  | 0.53  | 0.37  | 0.23  | 0.27 | 0.51  | 3.99  | 3.10 | 1.97 | 3.00  | 1.92 |
| CHALATAYA, BOLIVIA       | 3.16  | 0.074 | 0.374 | 0.23  | 0.24  | 0.37 | 1.414 | 4.68  | 5.74 | 1.79 | 2.02  | 2.00 |
| ANTOFAGASTA, CHILE       | 3.30  | 0.63  | 0.69  | 0.33  | 0.42  | 0.60 | 1.02  | 2.92  | 2.53 | 1.60 | 2.12  | 1.43 |
| ISLA DE PASCUA-EASTER IS | 3.78  | 0.77  | --    | 0.57  | --    | --   | --    | --    | --   | 0.53 | --    | --   |
| PORTILLO, CHILE          | --    | --    | --    | --    | --    | --   | 2.93  | 11.20 | 1.37 | --   | --    | --   |
| SANTIAGO, CHILE          | 1.27  | 0.94  | 0.93  | 0.40  | 0.43  | 0.45 | 0.58  | 2.47  | 2.13 | 0.92 | 2.49  | 1.55 |
| PUERTO MONTE, CHILE      | 3.82  | 0.56  | 0.51  | 0.37  | 0.234 | 0.24 | 0.24  | 0.78  | 3.79 | 0.55 | 0.78  | 0.99 |
| PUNTA ARENAS, CHILE      | 3.37  | 0.41  | 0.43  | 0.37  | 0.19  | 0.15 | 0.234 | 0.24  | 3.36 | 0.25 | 0.31  | 3.36 |
| ANTARCTICA               | --    | --    | --    | --    | --    | --   | --    | --    | --   | --   | --    | 0.40 |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1969  
(PEMTOCURIES / CUBIC METER)

| SITE                     | JAN.  | FEB.  | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT.  | NOV.  | DEC. |
|--------------------------|-------|-------|------|------|------|------|------|------|------|-------|-------|------|
| THULE, GREENLAND         | 1.79  | 1.74  | 2.39 | 2.32 | 1.09 | 0.59 | 1.50 | 3.26 | 1.10 | 1.68  | --    | --   |
| BRAVO OCEAN STATION      | 2.78  | 0.97  | 1.17 | --   | --   | --   | --   | --   | --   | --    | --    | --   |
| CHARLIE OCEAN STATION    | 3.83  | 1.33  | 1.01 | --   | --   | --   | --   | --   | --   | --    | --    | --   |
| MOOSEE, ONTARIO          | 1.22  | 1.53  | 2.51 | 3.48 | 2.24 | 2.21 | 2.84 | 3.70 | 2.01 | 1.15  | 0.78  | 0.59 |
| DELTA OCEAN STATION      | 3.91  | 1.13  | 5.42 | --   | --   | --   | --   | --   | --   | --    | --    | --   |
| NEW YORK, NEW YORK       | 1.18  | 1.29  | 1.55 | 2.35 | 2.42 | 2.87 | --   | 0.29 | 1.69 | 1.58  | 0.77  | 0.96 |
| STERLING, VIRGINIA       | 1.45  | --    | 2.16 | 2.45 | 4.23 | 3.90 | 3.42 | 3.44 | 2.33 | 1.40  | 0.90  | 0.91 |
| ECHO OCEAN STATION       | 1.23  | 1.54  | 1.71 | --   | --   | --   | --   | --   | --   | --    | --    | --   |
| MIAMI, FLORIDA           | 2.39  | --    | 2.27 | 2.03 | 0.86 | 1.13 | 2.04 | 1.82 | 3.62 | 1.21  | 1.32  | 1.54 |
| BEIJING, BANAPS          | 1.41  | 1.52  | 1.69 | 2.97 | 2.39 | 0.91 | 2.43 | 2.33 | 1.06 | 0.98  | 1.63  | 2.68 |
| MAUNA LOA, HAWAII        | 2.28  | 1.79  | 2.73 | 4.54 | 5.77 | 4.89 | 4.94 | 2.46 | 1.80 | 2.17  | 1.14  | 1.08 |
| SAN JUAN, PUERTO RICO    | 3.89  | 1.91  | 2.13 | 1.98 | 1.79 | 1.72 | 2.45 | 2.16 | 3.84 | 0.68  | 0.99  | 1.33 |
| BALBOA, PANAMA           | 3.56  | 1.16  | 1.09 | 1.27 | 0.64 | 0.21 | 0.64 | 0.18 | 3.09 | 0.164 | 0.20  | 0.52 |
| GUAYAGUIL, ECUADOR       | 3.78  | 0.58  | 0.17 | 0.12 | 0.18 | 0.22 | 0.42 | 0.14 | 3.44 | 0.81  | 0.83  | 0.97 |
| LIMA, PERU               | 2.14  | 2.34  | 1.25 | 0.98 | 0.23 | 0.59 | 1.59 | 1.77 | 2.61 | 5.49  | 3.52  | 2.28 |
| CHACALTAYA, BOLIVIA      | 3.59  | 0.66  | 0.42 | 0.43 | 1.05 | 1.45 | 2.89 | 2.39 | 1.40 | 1.58  | 0.114 | 0.69 |
| ANTOFAGASTA, CHILE       | 1.79  | 1.91  | 1.28 | 1.05 | 1.04 | --   | 2.09 | --   | --   | 1.84  | 2.56  | 7.70 |
| ISLA DE PASQUA-EASTER IS | --    | --    | --   | 0.61 | --   | --   | 1.17 | --   | --   | 1.14  | --    | --   |
| PORTILLO, CHILE          | 11.50 | 10.30 | --   | --   | --   | --   | --   | --   | --   | --    | --    | 3.01 |
| SANTIAGO, CHILE          | 2.22  | 2.42  | 2.40 | 1.54 | 1.62 | 2.05 | 2.28 | 2.10 | 3.53 | 3.26  | 2.45  | --   |
| PUERTO MONTT, CHILE      | 1.85  | 1.33  | 1.86 | 1.36 | 1.11 | 0.97 | 1.18 | 1.29 | 1.19 | 1.35  | 1.05  | 0.54 |
| PUNTA ARENAS, CHILE      | 3.73  | 0.85  | 1.19 | 0.57 | 0.62 | 0.63 | 0.83 | 0.49 | 3.63 | 0.44  | 0.50  | 0.54 |
| ANTARCTICA               | --    | --    | --   | 0.60 | 0.56 | 0.63 | 0.30 | 0.35 | 3.29 | 0.41  | 0.29  | 0.32 |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1970  
(PENTOCURIES / CURIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| NORD, GREENLAND          | --   | --   | --   | --   | --    | --   | --   | --   | 1.36 | 1.18 | 1.18 | --   |
| THULE, GREENLAND         | 1.42 | 1.60 | 4.68 | 3.09 | 2.51  | 6.72 | --   | 1.85 | 2.14 | 1.10 | 0.87 | --   |
| WOODBREE, ONTARIO        | 1.01 | 1.26 | --   | 2.39 | 4.32  | 3.85 | 4.29 | 4.17 | 2.40 | 1.69 | 1.04 | 1.12 |
| NEW YORK, NEW YORK       | 1.15 | 1.91 | 2.77 | 3.77 | 5.80  | 3.31 | 5.50 | 5.23 | 1.86 | 1.63 | 1.59 | 0.99 |
| STERLING, VIRGINIA       | 0.98 | 1.88 | 2.05 | 3.35 | 5.92  | 6.25 | 4.78 | 5.16 | 2.17 | 1.40 | 1.38 | 0.90 |
| MIAMI, FLORIDA           | 1.47 | 3.03 | 2.71 | 7.95 | 11.20 | 4.11 | 2.58 | 1.97 | 3.98 | 1.14 | 1.51 | 1.96 |
| BIMINI, BAHAMAS          | 1.72 | 3.42 | 4.31 | 6.77 | 8.43  | --   | 4.28 | 3.27 | 0.86 | 0.89 | 1.90 | 2.39 |
| MAUNA LOA, HAWAII        | 1.58 | 4.08 | 7.74 | 8.25 | 8.17  | 5.71 | 4.86 | 2.27 | 2.62 | 0.87 | 1.05 | 0.90 |
| SAN JUAN, PUERTO RICO    | 0.80 | 1.37 | 2.88 | 5.35 | 3.63  | 3.42 | 3.89 | 3.45 | 1.17 | 0.54 | 0.91 | 1.18 |
| BALBOA, PANAMA           | 0.73 | 1.05 | --   | 2.35 | 2.43  | 0.78 | 6.81 | --   | 0.21 | --   | --   | --   |
| GUAYAQUIL, ECUADOR       | 0.51 | 0.78 | 0.28 | --   | 0.18  | 6.36 | 6.49 | 0.45 | 0.75 | 0.46 | 0.40 | 0.42 |
| LIMA, PERU               | 3.45 | 1.89 | 1.86 | 1.95 | 0.89  | 1.02 | --   | --   | 2.42 | 3.25 | 3.14 | 1.36 |
| CHACALTAYA, BOLIVIA      | 0.72 | 3.61 | 0.31 | 0.54 | 1.69  | --   | --   | --   | 3.86 | 3.68 | 3.50 | 0.82 |
| ANTOFAGASTA, CHILE       | 4.99 | 1.42 | 1.15 | --   | --    | --   | --   | 2.12 | 2.74 | 2.87 | 2.27 | 2.03 |
| ISLA DE PASCUA-EASTER IS | 1.51 | --   | --   | --   | 0.45  | 6.72 | --   | 0.82 | 1.18 | 1.06 | --   | 1.16 |
| SANTIAGO, CHILE          | 2.46 | B    | 1.73 | 1.20 | 0.81  | 1.19 | 1.34 | --   | 1.88 | 1.85 | 0.44 | 2.40 |
| PUERTO MONTE, CHILE      | --   | --   | --   | --   | --    | 0.46 | 0.50 | 0.63 | 0.80 | 3.77 | 1.18 | 0.88 |
| PUNTA ARENAS, CHILE      | 0.70 | 1.16 | 0.60 | 0.64 | 0.39  | 6.20 | 0.39 | 0.30 | 3.37 | 3.39 | 3.51 | 0.41 |
| ANTARCTICA               | 1.18 | 2.03 | 3.89 | 1.20 | 1.12  | 0.64 | 0.75 | 0.34 | 3.50 | 3.63 | 0.57 | 0.48 |
| SOUTH POLE STATION       | --   | --   | --   | --   | 0.44  | 0.81 | 6.85 | 6.54 | 0.69 | 3.78 | 3.62 | 1.79 |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1971  
(PENTACURIES / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV.  | DEC. |
|--------------------------|------|------|------|------|-------|-------|------|------|------|------|-------|------|
| NORD, GREENLAND          | 0.94 | 0.28 | 2.19 | 2.73 | 2.13  | 1.92  | 1.56 | 1.08 | 0.48 | 0.45 | 0.83  | 0.44 |
| THULE, GREENLAND         | 2.01 | 2.27 | 4.69 | 4.83 | 3.31  | 2.64  | 3.94 | 2.32 | 1.03 | 0.48 | 0.92  | 1.32 |
| MOOSONEE, ONTARIO        | 1.77 | 0.75 | 2.80 | 2.06 | 5.81  | 6.66  | 5.21 | 3.97 | 1.87 | 1.06 | --    | --   |
| SALT LAKE CITY, UTAH     | 1.99 | 2.43 | 3.57 | 8.34 | 11.00 | 11.60 | 7.74 | 4.11 | 3.21 | 1.49 | 1.09  | 1.55 |
| NEW YORK, NEW YORK       | 1.12 | 3.92 | 3.24 | 2.93 | 5.09  | 6.86  | 7.37 | 3.75 | 2.27 | 0.62 | 0.52  | 0.85 |
| ROCKY FLATS, COLORADO #1 | --   | --   | 3.64 | 6.11 | 8.11  | 10.80 | 1.58 | 3.38 | 2.44 | 1.25 | 0.84  | 1.23 |
| STERLING, VIRGINIA       | 1.16 | 1.34 | 2.98 | 4.79 | 5.85  | 4.70  | 5.27 | 2.60 | 1.43 | 0.57 | 0.67  | 0.88 |
| MIAMI, FLORIDA           | 2.55 | 0.37 | 4.73 | 7.03 | 6.47  | 3.41  | 3.81 | 1.39 | 0.63 | 0.45 | 1.15  | --   |
| BIMINI, BAHAMAS          | 1.74 | 4.34 | 6.79 | 6.42 | 8.45  | 3.37  | 4.01 | 1.55 | 0.99 | 1.21 | 4.67  | --   |
| MAUNA LOA, HAWAII        | 2.67 | 2.44 | 4.19 | 2.71 | 7.19  | 10.40 | 9.11 | 2.29 | 1.45 | 1.01 | 0.89  | 1.22 |
| SAN JUAN, PUERTO RICO    | 1.14 | 1.76 | 3.97 | --   | --    | --    | --   | --   | --   | --   | 0.46  | 0.79 |
| BALBOA, PANAMA           | --   | --   | --   | --   | 1.30  | 1.51  | 1.75 | 0.66 | 0.17 | 0.08 | 0.16A | 0.58 |
| MERIDA, VENEZUELA        | --   | --   | --   | --   | --    | --    | --   | 0.68 | 0.34 | 0.25 | 0.19  | 0.42 |
| PICO BOPEJO, VENEZUELA   | --   | --   | --   | --   | --    | --    | --   | 0.26 | 0.26 | 0.18 | 0.15  | 0.53 |
| LA AGUADA, VENEZUELA     | --   | --   | --   | --   | --    | --    | --   | 0.57 | 0.23 | 0.21 | 0.15  | 0.35 |
| GUAYAQUIL, ECUADOR       | 0.57 | 0.35 | 0.24 | 0.34 | 0.25  | 0.19  | 0.46 | 0.29 | 0.26 | 0.10 | 0.22  | 0.21 |
| LIMA, PERU               | 1.75 | 1.52 | 0.79 | --   | 2.04  | 0.92  | 2.25 | 2.58 | 2.44 | 2.31 | 2.36  | 4.15 |
| CHACALTAYA, BOLIVIA      | 0.55 | 0.16 | 0.42 | 0.39 | 1.03  | 2.30  | 5.34 | 2.63 | 3.38 | 0.06 | --    | 1.17 |
| ANTOFAGASTA, CHILE       | 2.04 | 1.71 | 2.02 | 1.35 | 0.94  | 1.74  | 4.51 | 4.12 | 0.61 | 2.30 | 2.43  | 1.75 |
| ISLA DE PASCUA-EASTER IS | 1.24 | --   | 1.06 | 0.59 | 0.41  | 0.42  | 1.09 | 0.55 | 1.33 | 1.47 | 1.54  | 1.19 |
| SANTIAGO, CHILE          | 2.81 | --   | 2.57 | 3.44 | 1.28  | 1.46  | 2.91 | 2.57 | 2.14 | 1.86 | 1.09  | 1.17 |
| PUERTO MONTT, CHILE      | 1.13 | 2.05 | 1.74 | 1.42 | 1.09  | 0.64  | 0.86 | 0.73 | 0.64 | 0.70 | 0.95  | 0.87 |
| PUNTA ARENAS, CHILE      | 0.44 | 0.70 | 0.98 | --   | 0.73  | 0.53  | 0.66 | --   | --   | --   | --    | --   |
| ANTARCTICA               | 0.64 | 0.77 | 0.57 | 0.57 | 0.49  | 0.12  | 0.39 | 0.36 | 0.32 | 0.29 | 0.19A | 0.48 |
| SOUTH POLE STATION       | 0.99 | 1.02 | 1.31 | 1.49 | 1.12  | 0.58  | 0.67 | 0.79 | 0.89 | 1.04 | 1.18  | 3.25 |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:

- A - ERROR BETWEEN 2% AND 100%
- B - ERROR GREATER THAN 100%



STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1972  
(FEMTOCURIES / CUBIC METER)

| SITE                      | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY  | AUG. | SEP.  | OCT.  | NOV.  | DEC.  |
|---------------------------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|
| NORR, GREENLAND           | 1.61 | 1.64 | 1.76 | 1.20 | --   | --   | 0.42  | 0.44 | 0.36  | 0.27  | 0.38  | 0.49  |
| THULE, GREENLAND          | 3.69 | 1.09 | 1.73 | 0.58 | 1.01 | 0.68 | 1.58  | 1.07 | 0.42  | --    | --    | --    |
| MOOSONEE, ONTARIO         | --   | --   | --   | 1.81 | 1.04 | 1.39 | 2.48  | 2.03 | 1.46  | 0.36  | 0.72  | 0.504 |
| SALT LAKE CITY, UTAH      | 1.74 | 1.56 | 2.06 | 2.72 | 3.48 | 3.22 | 1.68  | 1.25 | 0.82  | 0.51  | 0.39  | 0.368 |
| NEW YORK, NEW YORK        | 2.29 | 2.92 | 1.35 | 1.58 | 1.48 | 1.61 | 1.16  | 0.95 | --    | 0.34  | 0.38  | 0.59  |
| ROCKY FLATS, COLORADO #1  | 1.20 | 1.32 | 2.37 | 2.68 | 1.64 | 1.72 | 0.89A | 1.31 | 0.67  | 0.49  | 0.46  | 0.52  |
| ROCKY FLATS, COLORADO #2  | --   | --   | --   | --   | --   | --   | --    | --   | --    | 1.01  | 0.54  | 0.61  |
| ROCKY FLATS, COLORADO #3  | --   | --   | --   | --   | --   | 1.57 | 0.73  | 0.75 | 0.56  | 0.69  | 0.24  | 0.27  |
| STEARLING, VIRGINIA       | 2.30 | 2.95 | 1.40 | 1.08 | 1.08 | 1.01 | 0.58  | 0.73 | 0.45  | 0.42  | 0.40  | 0.50  |
| MIAMI, FLORIDA            | --   | --   | --   | --   | --   | --   | --    | --   | --    | --    | --    | --    |
| MAUNA LOA, HAWAII         | 2.35 | 2.09 | 1.60 | 2.12 | 2.32 | 1.96 | 1.66  | 0.66 | 0.58  | 0.47  | 0.41  | 0.57  |
| SAN JUAN, PUERTO RICO     | 0.63 | 0.74 | 0.97 | 1.89 | 1.15 | --   | 0.99  | 0.73 | 0.39  | 0.17  | 0.32  | 0.23  |
| BALEIA, PARANA            | 0.79 | 0.64 | 0.81 | 1.10 | 0.34 | --   | 0.43  | 0.42 | 0.11A | 0.06A | 0.11  | 0.31  |
| MERIDA, VENEZUELA         | 0.24 | 0.42 | 0.43 | 0.42 | 0.10 | 0.35 | --    | 0.18 | 0.11  | --    | --    | --    |
| PICO ESPEJO, VENEZUELA    | 2.42 | 0.52 | 0.44 | 0.34 | 0.07 | 0.14 | 0.07  | 0.09 | 0.04  | 0.36  | 0.13A | 0.23  |
| LA AGUADA, VENEZUELA      | 2.34 | 0.41 | 0.47 | 0.35 | 0.08 | 0.22 | --    | 0.17 | 0.10  | --    | --    | --    |
| GUAYACIL, ECUADOR         | 2.19 | 0.19 | 0.14 | 0.25 | 0.13 | 0.12 | 0.03A | 0.14 | 0.28  | 0.38  | 0.29  | 0.35  |
| LIMA, PERU                | 3.49 | 1.54 | 1.91 | 1.10 | 0.46 | 0.77 | 0.58  | 0.78 | 0.36  | 1.44  | 2.01  | 1.49  |
| CHACALTAYA, BOLIVIA       | 2.54 | 2.83 | 2.33 | 0.40 | 0.61 | 0.76 | 0.49  | 0.76 | 0.50  | 1.19  | 0.73  | 0.41  |
| ANTOFAGASTA, CHILE        | 1.73 | 2.25 | 1.97 | 1.57 | 0.78 | 1.12 | 1.65  | 1.69 | 1.71  | 1.65  | 1.34  | 0.47  |
| ISLA DE PASCUA-EASTERN IS | 1.77 | 1.98 | --   | 0.42 | 0.44 | 0.38 | 0.47  | 0.66 | 0.67  | 0.60  | 0.61  | 0.35  |
| SANTIAGO, CHILE           | --   | 1.13 | 2.33 | 1.30 | 0.77 | 0.51 | 1.01  | 1.07 | 1.51  | 1.87  | 1.59  | 1.29  |
| PUERTO MONTE, CHILE       | 1.63 | 2.37 | 1.52 | 0.67 | 0.70 | 0.45 | 0.41  | 0.54 | 0.64  | --    | 0.40  | 0.47  |
| PUNTA ARENAS, CHILE       | --   | --   | --   | --   | --   | --   | --    | 0.27 | 0.31  | 0.26  | 0.25  | 0.40  |
| ANTARCTICA                | 2.47 | 2.85 | 2.51 | 0.69 | 0.36 | 0.27 | 0.23  | 0.33 | 0.19  | 0.24  | 0.16  | 0.26  |
| SOUTH POLE STATION        | 3.49 | 1.77 | 1.19 | 0.93 | 0.85 | 0.84 | 0.34  | 0.62 | 0.87  | 0.79  | 0.85  | 0.20  |

-- NO DATA

ERRORS ARE LESS THAN 1% EXCEPT:  
A - ERROR BETWEEN 1% AND 10%  
B - ERROR GREATER THAN 10%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1979  
(PICOGRAMS / CUBIC METER)

| SITE                       | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV.  | DEC.  |
|----------------------------|------|------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| THAE, GREENLAND            | 3.38 | 0.37 | 3.73  | 0.78  | 0.45  | 0.22  | 0.12 | 0.16 | 0.22 | 0.14 | 0.17  | 0.31  |
| KAP TORIN, GREENLAND       | --   | --   | --    | --    | --    | --    | --   | --   | --   | 0.25 | 0.14  | 0.23  |
| MOOSWEE, ONTARIO           | --   | 0.27 | 0.42  | 0.59  | 0.55  | 0.39  | 0.60 | 0.77 | 0.12 | 0.13 | 0.11  | 0.12  |
| MELEA, MONTANA             | --   | --   | --    | --    | --    | --    | --   | --   | --   | 0.29 | 0.16  | 0.22  |
| SALT LAKE CITY, UTAH       | 0.61 | 0.61 | 3.33  | --    | 1.75  | 1.29  | 0.56 | 0.53 | 0.35 | 0.61 | --    | --    |
| NEW YORK, NEW YORK         | 0.40 | 0.47 | 0.38A | 0.89A | 0.62  | 0.67  | 1.30 | 0.69 | 0.23 | 0.22 | 0.16  | 0.18  |
| ROCKY PLATS, COLORADO #1   | 0.41 | 0.62 | 0.35  | 0.72  | 1.11  | 0.61  | 0.50 | 0.29 | 0.21 | 0.23 | 0.22  | 0.27  |
| ROCKY PLATS, COLORADO #2   | 0.37 | 0.65 | 0.29  | 0.68  | 0.40  | 0.94  | 0.15 | 0.25 | 0.23 | 0.20 | 0.25  | 0.16  |
| ROCKY PLATS, COLORADO #3   | 0.31 | 0.89 | 0.51  | 0.72  | 1.56  | 1.13  | 0.60 | 0.32 | 0.33 | 0.29 | 0.29  | 0.27  |
| STERLING, VIRGINIA         | 0.40 | 0.53 | 0.43  | 0.71  | 0.62  | 0.65A | 0.39 | 0.27 | 0.23 | 0.17 | 0.15  | 0.13  |
| STICHOVSKY, CZECHOSLOVAKIA | --   | --   | 0.54  | 0.53  | 0.58  | 0.31  | 0.17 | 0.14 | 0.17 | 0.17 | 0.15  | 0.13  |
| MIAMI, FLORIDA             | 0.60 | 0.91 | 1.16  | 1.06  | 0.07  | 0.45  | 0.36 | 0.29 | 0.11 | 0.19 | 0.27  | 0.42  |
| MAUNA LOA, HAWAII          | 0.52 | 1.18 | 0.68  | 1.52  | 1.21  | 0.80  | 0.50 | 0.21 | 0.16 | 0.14 | 0.16  | 0.33  |
| SAN JUAN, PUERTO RICO      | 0.34 | 0.55 | 0.42  | 0.80  | 0.55  | 0.33  | 0.25 | 0.22 | 0.28 | 0.19 | 0.16  | 0.33  |
| BALBOA, PANAMA             | 0.40 | 0.46 | 0.23  | 0.71  | 0.63  | 0.04A | 0.58 | 0.16 | 0.22 | 0.14 | 0.15  | 0.12  |
| PICO ESPEJO, VENEZUELA     | 0.33 | 0.25 | 0.16  | 0.22  | 0.13A | 0.13A | 0.23 | 0.24 | 0.28 | 0.14 | 0.15  | 0.12  |
| CUMAYAGUIL, ECUADOR        | 0.18 | 0.14 | 0.07  | 0.07  | 0.07  | 0.07  | 0.44 | 0.16 | 0.18 | 0.10 | 0.10  | 0.12  |
| LIMA, PERU                 | 0.99 | 1.33 | 0.57  | 0.35  | 0.22  | 0.14  | 0.19 | 0.41 | 0.37 | 0.45 | 0.33  | 0.39  |
| CHICALTAYA, BOLIVIA        | 0.28 | 0.29 | 0.16  | 0.17  | 0.14  | 0.39  | 0.38 | 0.35 | 0.33 | 0.44 | 0.15  | 0.12  |
| ANTOPAGASTA, CHILE         | 0.59 | 1.37 | 0.46  | 0.42  | 0.47  | 0.43  | 0.18 | 1.03 | 0.53 | 0.52 | 0.36  | 0.42  |
| ISLA DE PASCUA-EASTER IS   | 0.56 | 0.43 | 0.44  | 1.04  | 0.15  | 0.20  | 0.18 | 0.13 | 0.18 | 0.13 | 0.14  | 0.24  |
| SANTIAGO, CHILE            | 1.18 | 1.83 | 0.96  | 0.87  | 0.25  | 0.40  | 0.60 | 0.41 | --   | --   | 0.22A | 0.47  |
| PUERTO MONTT, CHILE        | 0.98 | --   | 0.79  | 0.32  | 0.22  | 0.23  | 0.17 | 0.15 | 0.14 | 0.15 | 0.24  | 0.22  |
| PUNTA ARENAS, CHILE        | 0.43 | 0.31 | 0.47  | 0.29  | 0.13  | 0.11  | 0.67 | 0.11 | 0.12 | 0.10 | 0.13  | 0.12  |
| ANTARCTICA                 | 0.48 | 0.32 | 0.23  | 0.29  | 0.16  | 0.12  | 0.78 | 0.18 | 0.19 | 0.07 | 0.09  | 0.55A |
| SOUTH POLE STATION         | 0.81 | 0.77 | 0.78  | 0.66  | 0.71  | 0.26  | 0.73 | 0.16 | 0.21 | 0.27 | 0.32  | 0.24  |

-- NO DATA

ERRORS ARE LESS THAN 25% EXCEPT  
A - ERROR BETWEEN 25% AND 100%  
B - ERROR GREATER THAN 100%

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1974  
(FEMTOCURIES / CUBIC METER)

| SITE                     | JAN.  | FEB.  | MAR.  | APR.  | MAY  | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC. |
|--------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|
| THULE, GREENLAND         | 3.34  | 3.79  | 1.32  | 2.78  | 2.02 | 1.89  | 0.85  | --    | 3.62  | 3.19  | 3.43  | 0.53 |
| KAP TOBIN, GREENLAND     | 3.18  | 3.82  | 3.73  | 1.82  | 1.96 | 0.81  | 0.77  | 0.69  | 3.59  | 3.53  | 3.37  | 0.64 |
| MOOSNEE, ONTARIO         | 3.18  | 3.37  | 3.73  | 1.50  | 2.01 | 2.78  | 1.74  | 1.01  | 3.58  | 3.32  | 0.24  | 0.33 |
| HELEVA, MONTANA          | 3.32  | 3.71  | 2.06  | 3.17  | 5.81 | 6.38  | 2.70  | 1.95  | 1.34  | 3.44  | 3.56  | 0.36 |
| SALT LAKE CITY, UTAH     | --    | 3.78  | 3.83  | 3.27  | 5.92 | 3.58  | 2.17  | 2.14  | 1.24  | 3.59  | 3.66  | 0.56 |
| NEW YORK, NEW YORK       | 3.44  | 0.66  | 1.11  | 2.44  | 2.84 | 3.34  | 2.82  | 1.67  | 1.01  | 3.63  | 3.43  | 0.50 |
| ROCKY FLATS, COLORADO #1 | 3.38  | 1.34  | 2.36  | 4.19  | 4.48 | 5.30  | 1.83  | 1.48  | 0.98  | 0.52  | 0.59  | 0.84 |
| ROCKY FLATS, COLORADO #2 | 3.66  | 3.52  | 2.33  | 4.28  | 1.03 | 3.35  | 2.27  | 1.89  | 1.20  | 3.54  | 0.35A | 0.71 |
| ROCKY FLATS, COLORADO #3 | 3.97  | 1.73  | 3.03  | 6.03  | --   | --    | --    | --    | --    | --    | --    | --   |
| ROCKY FLATS, COLORADO #4 | --    | --    | --    | --    | 6.73 | 3.35  | 2.20  | 2.36  | 1.36  | 0.64  | 0.82  | 1.10 |
| STERLING, VIRGINIA       | 3.46  | 3.67A | 1.50  | 2.01  | --   | --    | --    | --    | --    | --    | --    | --   |
| RICHMOND, CALIFORNIA     | 0.48  | 3.83  | 1.26  | 2.18  | 1.46 | 2.07  | 0.94  | 0.56  | 0.36  | --    | 3.66  | 0.42 |
| MIAMI, FLORIDA           | 0.86  | 3.39  | 3.55  | 2.72  | 5.71 | 2.17  | 1.23  | 0.85  | 3.16  | 3.61  | 3.53  | 0.62 |
| MAUNA LOA, HAWAII        | 3.57  | 2.47  | 6.28  | 3.47  | 3.89 | 3.18  | 1.76  | 0.99  | 3.66  | 3.71  | 3.87  | 1.24 |
| SAN JUAN, PUERTO RICO    | 3.50  | 0.96  | --    | --    | --   | --    | --    | --    | --    | --    | --    | --   |
| BALBOA, PANAMA           | --    | --    | --    | --    | 0.40 | 0.75  | 0.05  | 0.42  | 0.07  | 0.06  | 0.11A | 0.26 |
| PICO ESPEJO, VENEZUELA   | 3.51  | --    | --    | --    | --   | --    | --    | --    | --    | --    | --    | --   |
| GUAYAGUIL, ECUADOR       | 3.22A | 3.34  | 3.01A | 0.05A | 0.04 | 0.05A | 0.51  | 3.28  | 0.36  | 3.25  | 3.14  | 0.31 |
| LINA, PERU               | 3.23  | 3.22  | 3.09A | --    | 0.04 | 0.10  | 0.62  | 1.15  | 1.06  | 1.92  | 3.67  | 0.74 |
| CHACALTAYA, BOLIVIA      | 3.36  | 3.35  | 3.11  | 0.04A | 0.09 | 0.13  | 5.63  | 2.61  | 4.93  | 2.45  | 1.46  | 0.63 |
| ANTOFAGASTA, CHILE       | 3.39  | 0.40  | 3.13  | 0.16  | 0.11 | 0.10  | 0.74  | 1.73  | 1.14  | 1.29  | 3.41  | 0.40 |
| ISLA DE PASCUA-EASTER IS | 0.21  | 0.18  | 0.16  | 0.11  | 0.09 | 0.17  | 0.14  | 0.48  | 0.34  | 0.30  | 0.46A | 0.36 |
| SANTIAGO, CHILE          | 3.41  | 3.52  | 0.34  | 0.06  | 0.11 | 0.05A | 0.20  | 0.80  | 0.77  | 0.44  | 0.20A | 0.49 |
| PUERTO MONTT, CHILE      | 3.32  | 3.25  | 3.16  | 0.09  | 0.12 | 0.06  | 0.08  | 0.12  | 0.21  | 0.16  | 0.28  | 3.36 |
| PUNTA ARENAS, CHILE      | 3.13  | 3.15  | 3.13  | 0.08  | 0.10 | 0.05  | 0.07  | 0.38  | 3.13  | 0.13  | 0.11  | 0.15 |
| ANTARCTICA               | --    | 3.18  | 3.39  | 0.08  | 0.06 | 0.07A | 0.05A | 0.07A | 3.03A | 3.26A | 3.13  | 0.16 |
| SOUTH POLE STATION       | 3.43  | 3.41  | 3.26  | 0.12  | 0.12 | 0.12  | 0.11  | 0.15  | 3.11  | 3.19  | 3.28  | 0.42 |

-- NO DATA

ERRORS ARE LESS THAN 1% EXCEPT  
A - ERROR BETWEEN 1% AND 100%  
B - ERROR GREATER THAN 100%

STATION - 90 CONCENTRATIONS IN SURFACE AIR DURING 1975  
(PERCENTS / CUBIC METER)

| SITE                     | JAN. | FEB.  | MAR.  | APR.  | MAY  | JUNE  | JULY | AUG.  | SEP.  | OCT.  | NOV.  | DEC. |
|--------------------------|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|
| THULE, GREENLAND         | 3.73 | 1.46  | 1.46  | 1.71  | 1.04 | 0.49  | --   | 0.08  | --    | 3.21  | --    | 0.27 |
| BARROW, ALASKA           | --   | --    | --    | --    | --   | --    | --   | --    | 3.10  | 3.26  | 0.12  | 0.13 |
| KAP TORIN, GREENLAND     | 3.79 | 1.25  | 1.65  | 1.25  | 1.56 | 0.64  | 0.28 | 0.23  | 3.25  | 3.19  | 3.17  | 0.22 |
| MOOSJEE, ONTARIO         | 3.34 | 3.83  | 2.37  | 1.33  | 1.39 | 0.90  | 0.74 | 0.43  | 3.19  | 3.14  | 0.09  | 0.15 |
| HELENA, MONTANA          | 1.33 | 3.59  | 1.23  | 8     | 0.67 | --    | --   | --    | 3.37  | 3.17  | 3.18  | 0.18 |
| SALT LAKE CITY, UTAH     | 3.32 | 1.34  | 2.07  | --    | --   | --    | --   | --    | --    | --    | --    | --   |
| NEW YORK, NEW YORK       | 3.53 | 3.99  | 1.53  | 2.37  | 1.77 | 1.28  | 1.08 | 0.57  | 3.24  | 3.24  | 3.21  | 0.19 |
| ROCKY FLATS, COLORADO #1 | 1.15 | 1.33  | 1.33  | 2.35  | 2.62 | 1.91  | 0.72 | 0.65  | 0.45  | 0.24  | 0.21  | 0.27 |
| ROCKY FLATS, COLORADO #2 | 3.94 | 1.26  | 1.59  | 2.16  | --   | --    | 0.70 | 0.53  | 0.32  | 3.21  | 0.15  | 0.17 |
| ROCKY FLATS, COLORADO #4 | 1.16 | 1.62  | 1.72  | 2.78  | --   | --    | --   | --    | --    | --    | --    | --   |
| RICHMOND, CALIFORNIA     | 3.69 | 1.17A | 1.66  | 1.32  | 1.55 | 0.69  | 0.23 | 0.23  | 3.23  | 3.21A | 3.22  | 0.14 |
| MIAMI, FLORIDA           | 1.30 | 1.23  | 1.85  | 2.44  | 1.04 | 0.35  | 0.30 | 0.26  | 3.17  | 3.11  | 0.20  | 0.28 |
| MAUNA LOA, HAWAII        | 1.90 | 2.36  | 1.92  | 2.49  | 2.81 | 1.45  | 1.07 | 0.43  | 3.30  | 0.12  | 0.23  | 0.23 |
| BALBOA, PANAMA           | 0.51 | 0.44  | 0.58  | 0.68  | 0.45 | 0.20  | 0.14 | 0.05  | 8     | 8     | 0.01A | 0.07 |
| GUAYAGUIL, ECUADOR       | 3.18 | 3.13  | 3.11A | 0.08A | 0.11 | 0.03A | 8    | 0.09A | 3.04A | 3.35A | 3.39A | 0.10 |
| LIMA, PERU               | 3.85 | 3.94  | 3.73  | 0.42  | 0.28 | 0.18  | 0.25 | 0.49  | 3.52  | 3.63  | 3.57  | 0.33 |
| CHACALTAYA, BOLIVIA      | 3.21 | 3.37  | 3.15  | 0.19  | 0.11 | 0.22  | 0.44 | 0.46  | 0.17  | --    | 3.21  | 0.12 |
| ANTOFAGASTA, CHILE       | 3.56 | 3.93  | 1.32  | 0.54  | 0.43 | --    | --   | --    | --    | --    | --    | --   |
| ISLA DE PASCUA-EASTER IS | 3.29 | 3.51  | 3.57  | 0.28  | 0.24 | 0.29  | 0.22 | 0.15  | 3.15  | 3.14A | 3.16  | --   |
| SANTIAGO, CHILE          | 3.48 | 3.79  | 1.43  | 0.59  | 0.49 | 0.34  | --   | --    | 3.36  | 3.37  | 3.32A | 0.57 |
| PUERTO MONTT, CHILE      | 3.75 | 3.73  | 3.73  | 0.40  | 0.29 | 0.28  | 0.20 | 0.17  | 3.21  | 3.24A | 3.14  | 0.12 |
| PUNTA ARENAS, CHILE      | 0.22 | 0.22  | 3.46  | --    | 8    | 0.12  | 0.12 | 0.09  | 0.08  | --    | 0.07  | 0.12 |
| ANTARCTICA               | 3.14 | 3.16  | 3.19  | 0.23  | 0.25 | 0.16  | 0.16 | 0.15  | 0.39  | 3.09  | 0.19  | 1.30 |
| SOUTH POLE STATION       | 3.42 | 3.83  | 3.59  | 0.54  | 0.50 | 0.28  | 0.31 | 0.29  | 0.28  | 3.23  | 0.30  | 0.36 |

-- NO DATA

ERRORS ARE LESS THAN 2% EXCEPT:  
A - ERROR BETWEEN 1975 AND 1976  
B - ERROR GREATER THAN 1976



STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1975  
(PENTADIMILES / CUBIC METER)

| SITE                     | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| THULE, GREENLAND         | --    | 0.25  | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   |
| BARRON, ALASKA           | 3.14  | 3.29  | 3.23  | 0.14  | 3.14  | 0.10  | 0.07  | 0     | 3.32A | --   | --   | --   |
| KAP TOBIN, GREENLAND     | 3.19  | 3.15  | 3.14  | 0     | 0.16  | 0.07  | 0.06  | 0.05  | --    | --   | --   | --   |
| MOOSBEE, ONTARIO         | 3.14  | 3.23  | 3.31  | 0.24  | 0.23  | 0.32  | 0.32  | 0.13A | 3.09  | 3.11 | 3.11 | 0.11 |
| MELENA, MONTANA          | 3.25  | 3.23  | 3.35  | 0.47  | 0.42  | 0.43  | 0.39  | 0.32  | 3.21  | --   | --   | --   |
| NEW YORK, NEW YORK       | 3.23  | 0.27  | 3.36  | 0.42  | 0.42  | 0.45  | 0.31  | 0.17  | 0.19  | 0.13 | 0.13 | 0.13 |
| ROCKY FLATS, COLORADO #1 | 3.29  | 3.43  | 3.63  | 0.63  | 0.56  | 0.51  | 0.29  | 0.14  | --    | --   | --   | --   |
| ROCKY FLATS, COLORADO #2 | 3.20  | 3.34  | 3.45  | 0.41  | 0.45  | 0.43  | 0.20  | 0.13  | --    | --   | --   | --   |
| RICHMOND, CALIFORNIA     | 3.29  | 3.29  | 3.34  | 0.28  | 0.30  | 0.20  | 0.12  | 0.24A | 0.13  | --   | --   | --   |
| MIAMI, FLORIDA           | 3.29  | 3.41  | 3.45  | 0.63  | 0.30  | 0.13  | 0.15  | 0.09  | 3.06  | 3.71 | 3.33 | 0.30 |
| MAUNA LOA, HAWAII        | 3.43  | 3.47  | 3.43  | --    | --    | --    | --    | --    | --    | --   | --   | 0.20 |
| BALBOA, PANAMA           | 3.39  | 3.19  | 3.20  | 0.23  | 0.11  | 0.04A | 0.04A | 0.36  | --    | --   | --   | --   |
| GUAYAQUIL, ECUADOR       | 3.34  | 3.35  | 0     | 0     | 0     | 0.38  | 0     | 0     | 0.35A | --   | --   | --   |
| LIMA, PERU               | 3.31  | 3.22  | 3.28  | 0.11  | 0.04A | 0.05  | 0.07  | 0.13  | 3.12  | 3.11 | 3.11 | 0.11 |
| TUTUILA, SAMOA           | --    | --    | --    | 0     | 0.01A | --02A | 0.05  | 0.13  | 3.11  | --   | --   | --   |
| CHACALTAYA, BOLIVIA      | 3.32A | 3.39  | 3.74A | 0.06A | 0.04A | 0.09  | 0.06A | 0.11A | 3.03A | 3.13 | 3.13 | 0.13 |
| ANTOFAGASTA, CHILE       | --    | --    | --    | 0.13  | 0.05  | 0.07  | 0.11  | 0.15  | --    | --   | --   | --   |
| ISLA DE PASCUA-EASTER IS | 3.21  | 3.12A | 3.12  | --    | --    | --    | 0.07  | 0.07  | --    | --   | --   | --   |
| SANTIAGO, CHILE          | 3.37  | 3.63  | 3.26  | 0.24  | 0.11  | 0.09  | 0.38  | 0.18  | 3.17  | 3.15 | 3.15 | 0.15 |
| PUERTO MONTE, CHILE      | 3.19  | 3.17  | 3.14  | 0.04A | 0.04A | 0     | --    | 0.06  | --    | --   | --   | --   |
| PUNTA ARENAS, CHILE      | 3.39  | 3.13  | 3.29A | 0.04  | 0.06A | 0     | 0.04A | 0.33A | 0.03A | 0.03 | 0.03 | 0.03 |
| SOUTH POLE STATION       | 3.51  | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   |

-- NO DATA

ERRORS ARE LESS THAN 20% EXCEPT:  
A - ERROR BETWEEN 20% AND 100%  
B - ERROR GREATER THAN 100%

STATION - 20 CONCENTRATIONS IN SURFACE AIR DURING 1977  
 (CENTIGRADES / CUBIC METERS)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| WINDSOR, ONTARIO         | 3.38 | 3.28 | 3.38 | 1.01 | 1.01 | 1.01 | 0.74 | 0.74 | 3.74 | 3.58 | 3.58 | 3.54 |
| NEW YORK, NEW YORK       | 3.18 | 3.18 | 3.18 | 1.46 | 1.46 | 1.47 | 1.18 | 1.18 | 1.18 | 3.89 | 3.89 | 3.89 |
| ROCKY PLATS, COLORADO #1 | --   | --   | 3.49 | 0.83 | 1.88 | 1.88 | 0.88 | 0.89 | 0.15 | 3.15 | 1.29 | 1.24 |
| ROCKY PLATS, COLORADO #2 | --   | --   | 3.21 | 0.72 | 2.32 | 2.31 | 1.26 | --   | 0.05 | 3.05 | 1.47 | 0.00 |
| LIVERMORE, CALIFORNIA    | --   | --   | --   | --   | 1.46 | 2.20 | 3.58 | 2.34 | 2.09 | 2.37 | 1.66 | 1.00 |
| MIAMI, FLORIDA           | 3.28 | 3.28 | 3.28 | 1.34 | 1.34 | 1.34 | 0.65 | 0.65 | 0.65 | 1.99 | 1.20 | 1.10 |
| MAUNA LOA, HAWAII        | 3.51 | 3.52 | 1.36 | 1.36 | --   | --   | --   | --   | 3.43 | 1.47 | 1.01 | 1.01 |
| LIMA, PERU               | 3.13 | 3.13 | 3.13 | 0.65 | 0.65 | 0.65 | 0.08 | 0.08 | 3.08 | 3.13 | 3.13 | 0.10 |
| CHACALTAYA, BOLIVIA      | 3.39 | 3.39 | 3.39 | 0.10 | 3.10 | 3.10 | 0.21 | 0.21 | 3.21 | 3.39 | 3.39 | 0.09 |
| SANTIAGO, CHILE          | 3.17 | 3.17 | 3.17 | 0.66 | 0.66 | 0.66 | 0.06 | 0.06 | 3.06 | 3.39 | 3.39 | 3.39 |
| PUNTA ARENAS, CHILE      | 3.36 | 3.36 | 3.36 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 3.02 | 3.36 | 3.36 | 0.03 |

-- NO DATA

ERRORS ARE LESS THAN 2% EXCEPT:  
 WINDSOR, ONTARIO AND NEW YORK  
 - 10% ERROR

STRONTIUM - 90 CONCENTRATIONS IN SURFACE AIR DURING 1978  
(FEMTOGRAMS / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| MOOSEE, ONTARIO          | 1.36 | 1.06 | 1.07 | 1.50 | 1.45 | 1.45 | 0.70 | 0.71 | 0.69 | 0.24 | 0.25 | 0.24 |
| NEW YORK, NEW YORK       | 0.98 | 0.98 | 0.98 | 1.72 | 1.71 | 1.64 | 0.91 | 0.90 | 0.49 | 0.29 | 0.29 | 0.28 |
| ROCKY PLATS, COLORADO #1 | --   | --   | --   | --   | 2.29 | 2.25 | 1.25 | 1.27 | 1.26 | 0.63 | 0.63 | 0.64 |
| ROCKY PLATS, COLORADO #4 | 1.23 | 1.23 | 3.93 | 2.56 | 2.56 | 2.47 | 1.01 | 1.01 | 1.01 | 0.47 | 0.47 | 0.47 |
| LIVERMORE, CALIFORNIA    | 1.37 | 1.77 | 2.93 | 2.60 | 2.29 | 2.47 | 2.44 | 1.54 | 1.33 | 0.93 | 0.79 | 0.50 |
| MIAMI, FLORIDA           | 1.38 | 1.38 | 1.38 | 1.52 | 1.52 | 1.51 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | --   |
| MAUNA LOA, HAWAII        | 0.80 | 0.80 | 0.80 | 1.44 | 1.46 | 1.45 | 0.43 | 0.42 | 0.43 | 0.32 | 0.32 | 0.33 |
| LIMA, PERU               | 0.07 | 0.07 | 0.07 | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| CHACALTAYA, BOLIVIA      | --   | --   | --   | 0.08 | 0.08 | 0.08 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.08 |
| SANTIAGO, CHILE          | --   | --   | --   | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 | 0.06 | 0.08 |
| PUNTA ARENAS, CHILE      | 0.04 | 0.04 | 0.04 | 0.02 | 0.07 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 |

-- NO DATA

ERRORS ARE LESS THAN 25% EXCEPT:  
#1 - ERROR BETWEEN 25% AND 100%  
#4 - ERROR GREATER THAN 100%

SEVENTEEN - 33 CONCENTRATIONS IN SURFACE AIR DURING 1979  
(PENTACURIES / CUBIC METER)

| SITE                     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| MOONSHINE, ONTARIO       | 2.37 | 2.37 | 2.37 | 0.44 | 0.43 | 0.44 | 0.25 | 0.25 | 0.25 | --   | --   | --   |
| NEW YORK, NEW YORK       | 2.35 | 2.35 | 2.34 | 0.52 | 0.53 | 0.52 | 0.30 | 0.32 | 0.33 | --   | --   | --   |
| ROCKY FLATS, COLORADO #1 | 2.52 | 2.52 | 2.52 | 0.41 | 0.41 | 0.41 | 0.27 | 0.27 | 0.27 | --   | --   | --   |
| ROCKY FLATS, COLORADO #4 | 2.55 | 2.55 | 2.54 | 0.64 | 0.64 | 0.64 | 0.32 | 0.32 | 0.32 | --   | --   | --   |
| LIVERMORE, CALIFORNIA    | 2.51 | 2.53 | 2.73 | 0.79 | 1.04 | 1.15 | 0.65 | 0.49 | 0.31 | --   | --   | --   |
| MIAMI, FLORIDA           | 2.44 | 2.44 | 2.44 | 0.46 | 0.46 | 0.46 | 0.07 | 0.07 | 0.07 | --   | --   | --   |
| MAUNA LOA, HAWAII        | 2.54 | 2.65 | 2.64 | 0.58 | 0.58 | 0.58 | 0.24 | 0.25 | 0.25 | --   | --   | --   |
| LIMA, PERU               | 2.26 | 0.06 | 2.06 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | --   | --   | --   |
| CHACALTAYA, BOLIVIA      | 2.22 | 0.03 | 2.03 | 0.03 | 0.03 | 0.03 | 0.06 | 0.06 | 0.06 | --   | --   | --   |
| SANTIAGO, CHILE          | 2.39 | 2.39 | 2.39 | 0.07 | 0.07 | 0.07 | 0.01 | 0.01 | 0.01 | --   | --   | --   |
| PUNTA ARENAS, CHILE      | 2.35 | 2.35 | 2.35 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | --   | --   | --   |

-- NO DATA

ERRORS ARE LESS THAN 2% EXCEPT:  
A - ERROR BETWEEN 2% AND 10%  
B - ERROR GREATER THAN 10%