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GOVERNMENT OF INDIA
ATOMIC ENERGY COMMISSION

MEASUREMENTS ON AIRBORNE AND SURFACE FALLOUT RADIOACTIVITY IN INDIA FROM NUCLEAR WEAPON TESTS
(RESULTS UP TO JUNE 1965)

by
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C O N T E N T S

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Measurements on Airborne and Surface Fallout radioactivity in India from Nuclear Weapon Tests

(Results upto June 1965)

Data on fallout activity in various types of environmental and food samples collected since early 1956 have already been reported in two previous publications(1,2). This report gives further data on fallout activity but is confined only to airborne and surface fallout measurements made at the monitoring stations listed in table 1.

Gross beta activity of airborne and surface fallout samples was tabulated upto December 1962 under references (1) and (2). Data from January 1963 onwards are given in tables 2,3,4 and 5 of this report.

Daily airborne beta activity levels are given upto August 1964 in table 2. Further tabulation of the daily activity was discontinued as the levels were approaching the lower detection limits. However, daily beta activity measurements are tabulated for the months of May and June 1965 in view of the increase in activity as a result of the second Chinese test of 14th May 1965. (The activity from the first Chinese test, although observed in monthly pooled samples, was not high enough to be detected in the daily collection).

A summary of the monthly average airborne fallout beta activity at all the stations in India from 1956 onwards is given in table 3. This includes also the several parallel collections made in and around the Trombay area of the Atomic Energy Establishment, Bombay.

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Daily surface fallout measurements at Bombay (table 4) were discontinued after December 1963 as the activity levels in the dry months were below the detection limits. Measurements could however, be resumed during the monsoon months of 1964 and 1965.

Data on individual isotopes measured in ground level air and monthly surface deposition samples are given in tables 6 and 7. In view of the small amount of radioactivity deposited during dry months or periods of low rainfall and activity, some monthly samples could not be analysed for individual radio-nuclides. In such cases the levels are shown as below detection limits.

At Bombay parallel collections of air samples using several blowers were carried out for a period of sixteen months beginning from March 1964. The isotopic analysis of these collections are also reported in table 6.

The counting and sampling procedures used in these measurements remained essentially the same as described previously (1,2,3). About 50,000 cubic metres of air is sampled every month at Bombay. At the other stations the sampling volume is one tenth of this. Most of the isotopic measurements reported here since 1961 were made with a 3" x 3" NaI crystal and a 100 channel pulse height analyser.

To avoid errors due to self-absorption in the gross beta counting of the thick monthly surface deposition samples, the following procedure has been adopted since 1965. A high activity control sample usually a large volume air filter collection is ashed and a thin

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sample is prepared out of the residue. The control sample is beta counted and the total beta activity estimated using Kcl standards. The gamma spectrum of the control sample is also taken in the gamma-spectrometer. A relation is derived between the gamma counts registered in the spectrometer in the energy range of 0.1 to 1 Mev and total beta activity. Using this relation, the total beta activity of the thick deposition samples are calculated from their gamma counts in the spectrometer. At least one control sample is measured each month to take into account the variation in the relation between beta activity and gamma counts due to the changing composition of the fission products. Decay corrections to the middle of the month of collection can be made by following the progressive decrease of the gamma counts of the control samples of the various months. It is expected that this procedure will give better results as compared to the direct beta counting of the thick deposition samples as errors due to self-absorption corrections are minimized.

Several experiments, including parallel collections, repeated countings and chemical analyses have been carried out to determine the over-all errors involved in these measurements. The errors vary for the different measurements depending on the relative concentrations of the isotopes concerned, their activities and the sampling volumes involved. Full details of these studies will be reported elsewhere. However, it can be stated that in general the over-all errors are better than 25% for most of the measurements presented here.

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References:-

(1) Measurements on the environmental radioactivity in India from Nuclear weapon tests-Data collected during 1956-'61, Atomic Energy Establishment Trombay Report No. AEET/AM/26.

(2) Measurements on the environmental radioactivity in India from Nuclear weapon tests-Data collected during 1962-'63, Atomic Energy Establishment Trombay Report No. AEET/AM/39.

(3) Measurements of airborne radioactive fallout in India, Atomic Energy Establishment Trombay Report No. AEET/208, 1965.

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Table- 1

LIST OF FALLOUT MONITORING STATIONS

IN INDIA

	Station	Altitude (meters)	Latitude	Longitude
1.	Srinagar	1598	34° 06' N	74° 55' E
2.	Gulmarg *	2743	34° 00' N	74° 25' E
3.	Nainital *	1935	29° 30' N	79° 30' E
4.	Delhi	219	28° 45' N	77° 20' E
5.	Gangtok	2000	27° 12' N	88° 23' E
6.	Calcutta	Sea level	22° 34' N	88° 25' E
7.	Nagpur	311	21° 12' N	79° 04' E
8.	Bombay	Sea level	18° 57' N	72° 55' E
9.	Bangalore	922	12° 57' N	77° 30' E
10.	Ootacamund	2235	11° 23' N	76° 40' E

*. Only airborne fallout measurements.

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TABLE 2 (a)

Daily Airborne Fallout Beta Activity

January 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	7.95	6.50	13.30	21.00	8.50	11.65	4.10	46.50
2	7.95	3.45	16.35	19.50	13.20	10.10	2.92	47.70
3	8.73	9.60	20.20	41.70	14.20	4.16	5.43	31.40
4	10.20	12.10	16.60	25.60	15.90	12.55	4.63	42.30
5	8.95	14.00	17.65	14.85	19.00	12.80	1.79	23.38
6	8.95	13.50	14.25	16.45	13.35	20.30	5.04	21.40
7	8.95	18.40	13.50	10.75	17.40	18.10	3.00	14.20
8	16.70	10.30	4.65	10.20	17.50	3.92	0.38	17.70
9	13.35	11.45	8.00	11.60	16.60	13.80	0.36	15.65
10	14.40	14.30	10.75	15.30	13.70	11.95	0.17	11.90
11	13.00	1.19	10.70	12.50	10.20	3.91	0.51	9.55
12	12.60	7.63	6.20	13.15	10.60	7.65	0.19	8.17
13	8.90	11.00	5.45	12.30	10.65	7.04	1.27	8.80
14	8.90	8.20	7.20	7.00	9.87	2.15	3.18	7.25
15	6.88	6.18	7.80	11.90	7.90	5.97	-	7.62
16	-	5.90	5.33	5.07	5.35	8.58	-	8.42
17	7.70	5.89	10.55	4.78	10.25	12.70	4.75	10.60
18	7.70	7.55	7.28	8.63	18.20	14.70	5.10	11.75
19	7.55	8.90	8.80	8.44	15.90	31.70	7.65	13.80
20	6.42	6.10	11.00	8.20	17.90	12.80	6.30	15.80
21	6.42	18.30	10.75	13.30	16.50	16.25	4.33	17.00
22	7.43	9.60	14.35	9.54	16.85	15.55	6.45	12.50
23	7.70	9.15	13.90	9.54	15.40	16.60	-	19.50
24	8.68	14.00	14.00	6.55	15.20	11.50	11.25	13.65
25	11.60	17.00	9.30	6.88	-	13.85	6.25	10.90
26	9.00	6.98	6.80	8.73	11.60	11.25	2.05	10.35
27	9.00	14.75	8.95	10.95	13.50	11.95	4.70	11.70
28	9.00	14.30	11.50	10.10	10.35	11.75	6.56	11.90
29	6.85	10.40	10.30	6.80	10.30	12.30	7.87	9.75
30	10.00	10.70	8.65	10.65	14.20	11.55	12.10	10.85
31	9.90	13.25	9.08	-	19.10	11.15	9.30	9.30
Average	9.38	10.35	10.75	12.40	13.60	11.90	4.58	16.50

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TABLE 2 (a) (contd)

Daily Airborne Fallout Beta Activity

February 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	9.90	16.70	8.35	9.45	14.40	12.10	19.90	12.40
2	9.90	18.00	10.75	10.90	14.75	17.40	13.95	12.00
3	10.35	17.50	10.30	11.05	10.70	13.30	9.40	9.30
4	10.35	13.35	11.85	12.30	12.10	8.83	6.85	11.80
5	12.40	20.70	10.40	10.40	11.30	10.70	9.60	11.15
6	11.20	15.90	12.85	11.65	17.30	9.55	3.58	5.07
7	7.20	16.00	12.60	12.30	13.20	5.15	4.35	4.80
8	9.45	7.95	7.20	9.90	13.20	4.05	4.04	4.45
9	-	9.55	12.00	11.30	12.70	9.70	4.03	6.18
10	-	5.40	9.90	12.05	13.05	8.60	4.34	9.25
11	-	4.42	9.30	16.70	10.20	8.03	-	7.38
12	8.34	5.00	10.70	10.80	7.70	11.15	2.22	11.30
13	8.90	3.53	10.60	7.57	11.95	7.62	3.02	7.80
14	8.27	5.50	7.60	7.53	9.57	8.28	3.46	4.45
15	5.90	6.00	8.85	8.25	9.90	10.60	2.71	3.62
16	5.17	6.93	6.10	6.28	9.40	6.25	4.93	0.32
17	5.68	6.73	8.25	7.68	10.10	4.16	6.48	1.24
18	5.68	7.48	6.27	6.38	10.00	6.15	4.84	7.25
19	7.78	5.15	-	6.00	10.00	6.20	3.61	2.66
20	8.45	3.04	5.30	8.53	8.95	5.34	4.10	11.75
21	8.70	2.10	5.17	7.55	10.30	5.85	4.34	11.65
22	5.12	6.28	5.80	8.05	9.14	7.10	3.58	9.93
23	5.12	1.02	3.66	9.65	9.10	4.76	3.57	9.63
24	5.12	0.96	4.45	9.75	8.60	4.90	2.80	9.07
25	5.12	0.33	5.72	11.60	10.55	6.12	1.87	7.88
26	6.40	0.52	5.86	-	11.30	6.60	1.17	9.20
27	6.40	0.46	7.92	9.50	13.90	7.50	3.26	10.60
28	11.35	0.51	8.80	12.40	14.80	5.33	4.18	12.25
Average	7.90	7.40	8.40	9.85	11.35	7.90	5.23	8.05

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TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

March 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	7.25	0.66	4.93	10.10	13.65	5.85	2.10	8.78
2	7.25	0.36	8.72	9.30	11.10	5.90	3.88	11.00
3	6.92	-	7.65	13.65	7.75	11.15	2.98	6.55
4	6.92	0.46	8.42	10.85	10.30	12.20	2.85	6.10
5	5.51	-	7.16	8.64	8.60	10.40	4.05	0.49
6	5.43	0.74	4.78	8.10	6.95	8.60	5.65	0.42
7	9.07	0.66	8.35	8.72	7.18	10.20	8.55	5.05
8	13.80	0.64	8.75	13.40	6.70	10.35	9.65	2.00
9	8.00	1.13	8.80	8.55	6.45	8.45	8.15	3.17
10	8.00	0.86	9.35	9.10	5.60	10.00	7.95	0.77
11	8.00	1.13	9.14	15.80	9.00	12.20	8.20	16.80
12	8.00	1.43	5.50	16.00	12.30	19.60	7.38	27.80
13	15.90	1.62	10.30	18.50	9.20	13.30	8.20	24.60
14	14.50	1.09	14.10	18.10	6.50	17.90	6.55	2.39
15	10.90	0.91	11.40	14.80	14.80	14.20	6.70	17.40
16	12.70	2.15	12.30	14.30	14.00	8.35	7.60	3.19
17	21.10	1.88	7.25	13.20	12.20	5.79	6.94	1.81
18	21.10	2.23	6.25	9.75	13.50	10.50	4.33	8.80
19	17.40	0.77	5.52	14.30	22.80	10.90	4.95	15.10
20	13.10	2.00	7.20	16.75	17.00	12.40	6.65	19.20
21	12.40	1.20	10.65	13.20	21.40	14.50	7.45	19.00
22	10.80	0.94	9.40	11.25	17.75	11.60	6.10	12.75
23	9.20	1.40	8.30	13.50	16.35	7.95	10.20	1.48
24	9.20	7.45	11.00	7.15	16.10	8.86	7.65	0.49
25	9.20	3.70	10.80	11.70	12.60	10.90	-	9.15
26	11.40	-	6.18	15.30	8.85	10.00	2.12	17.10
27	11.40	0.67	6.04	14.30	13.00	12.55	0.29	14.10
28	21.80	2.00	14.45	17.00	21.40	15.90	1.10	15.50
29	15.50	1.47	9.25	20.40	26.00	7.90	1.54	7.80
30	8.50	3.40	28.50	20.40	28.00	5.50	2.42	12.30
31	9.30	0.81	25.30	16.60	27.60	6.80	-	15.40
Average	11.30	1.46	9.95	13.30	13.70	10.70	5.60	9.90

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TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

April 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	9.30	10.30	14.90	10.90	24.20	5.47	5.75	11.15
2	10.50	8.58	9.15	12.60	17.00	3.66	10.20	12.80
3	10.50	8.10	13.30	10.70	18.80	4.28	9.20	8.25
4	12.50	7.55	7.21	6.95	10.80	9.70	8.66	4.13
5	10.70	6.65	6.53	11.80	8.97	8.60	8.20	8.20
6	7.00	4.50	6.95	13.00	5.59	3.65	7.02	11.25
7	6.20	4.50	5.97	5.80	4.08	2.22	3.51	1.64
8	6.20	6.72	7.00	8.50	6.52	2.36	4.76	6.35
9	9.37	5.10	5.43	8.17	6.80	2.57	4.78	9.15
10	10.60	5.03	2.62	8.82	9.42	8.72	4.22	10.00
11	8.90	4.82	3.18	10.85	13.30	2.80	4.40	8.30
12	7.87	3.54	6.02	10.95	7.98	3.97	2.77	-
13	7.87	3.78	6.12	7.55	7.65	5.72	2.92	7.70
14	7.87	3.18	5.66	8.03	6.54	5.45	2.96	7.05
15	7.87	4.35	3.78	8.20	4.80	6.33	4.32	6.59
16	11.35	-	1.60	6.63	4.28	5.20	8.15	6.53
17	7.80	9.80	4.58	7.20	3.36	4.80	9.45	5.45
18	13.20	6.97	3.86	11.60	2.86	4.43	9.20	0.74
19	12.30	7.40	4.23	8.80	3.00	4.28	7.68	3.83
20	13.20	7.85	4.90	7.78	8.95	2.97	7.13	4.93
21	13.40	4.32	4.23	8.75	9.43	5.60	5.27	5.38
22	13.40	3.47	5.45	9.25	9.51	7.18	4.70	5.83
23	14.70	1.31	3.77	8.15	5.68	4.98	3.28	6.30
24	7.55	2.35	4.57	5.97	5.60	-	2.16	1.10
25	9.70	2.80	4.75	7.08	6.97	-	2.85	2.78
26	9.57	2.88	4.18	7.15	7.10	-	3.20	4.42
27	8.25	4.65	5.38	9.20	8.25	-	5.65	5.15
28	8.25	5.90	5.97	6.30	8.25	7.15	7.55	-
29	8.25	4.73	5.60	6.81	6.53	7.10	6.08	0.22
30	8.31	2.89	4.50	10.65	2.79	6.02	4.60	0.54
Average	9.75	5.30	5.72	8.80	8.15	5.00	5.70	5.93

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TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

May 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	6.02	2.16	3.52	5.10	2.34	3.86	3.12	2.01
2	1.57	2.37	2.64	5.08	6.74	3.20	3.10	3.23
3	8.37	2.44	2.85	5.30	4.13	3.58	2.82	3.51
4	4.97	2.40	3.37	4.77	2.73	5.00	2.58	-
5	3.98	1.89	2.34	5.38	1.07	3.46	2.76	4.43
6	3.98	2.51	2.50	5.75	2.12	3.93	2.48	7.20
7	4.35	1.81	3.75	9.10	2.75	4.23	3.18	8.70
8	4.18	-	2.82	5.87	2.94	3.74	2.98	6.78
9	4.82	-	2.27	4.18	3.19	4.08	3.18	3.88
10	7.37	-	2.88	5.07	1.53	4.24	2.74	-
11	4.65	-	2.68	6.18	2.25	6.15	2.58	5.22
12	4.65	-	3.14	6.08	2.55	5.72	2.50	5.66
13	4.65	-	2.54	7.68	4.92	4.89	2.28	6.16
14	2.57	1.01	2.08	7.91	4.10	2.00	2.51	6.60
15	6.47	1.47	2.26	6.45	3.43	2.77	3.06	1.98
16	10.50	2.34	1.85	4.20	3.08	3.28	1.59	5.22
17	14.90	1.79	1.82	8.80	2.95	3.32	1.45	5.28
18	14.10	1.47	2.11	10.15	3.86	8.43	2.47	7.04
19	8.33	1.35	2.16	9.00	10.55	11.15	2.04	2.93
20	8.33	0.78	4.05	8.95	8.38	10.50	2.22	1.00
21	13.15	2.92	1.63	8.60	6.40	10.20	5.05	7.74
22	8.98	3.78	2.16	11.65	3.66	10.90	8.35	8.50
23	7.45	5.72	2.10	12.42	5.75	10.20	6.93	11.55
24	5.45	5.25	0.54	11.10	7.15	7.87	5.98	11.45
25	3.06	3.12	-	9.55	4.51	9.55	4.26	9.30
26	3.06	2.52	5.22	6.88	6.48	10.25	4.55	-
27	3.06	1.22	1.95	6.45	6.50	8.75	4.92	11.45
28	5.14	1.00	4.45	6.50	7.25	5.48	5.25	6.52
29	2.82	0.10	3.98	6.53	3.79	4.70	5.53	4.88
30	5.14	0.07	3.44	7.52	1.70	4.60	4.66	6.57
31	-	3.97	4.92	5.55	0.60	5.70	4.40	4.55
Average	6.20	2.20	2.80	7.25	4.17	6.00	3.60	4.70

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TABLE 2 (a)(contd)

Daily Airborne Fallout Beta-activity

June 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	3.44	3.38	3.90	3.12	2.46	7.88	4.70	4.90
2	2.44	1.31	4.62	2.90	4.73	4.73	3.39	2.94
3	2.44	2.30	3.78	2.49	2.66	5.07	1.75	4.12
4	2.44	0.56	4.20	3.24	3.63	4.60	1.28	6.90
5	2.72	1.05	4.63	5.82	5.33	3.36	1.21	5.80
6	-	1.16	1.59	4.65	6.30	2.13	1.42	6.37
7	3.26	2.17	0.72	3.88	5.75	3.74	1.31	6.35
8	1.73	1.45	0.61	5.23	3.92	4.37	2.30	17.35
9	1.73	1.14	2.57	4.98	-	4.35	2.09	6.02
10	1.73	1.08	1.52	5.43	1.06	4.00	1.94	-
11	1.66	1.00	3.07	4.38	0.15	2.21	0.82	5.98
12	2.18	1.12	3.08	6.68	0.66	1.64	0.38	5.83
13	2.44	0.62	1.51	5.95	1.39	3.15	0.52	6.83
14	1.81	0.71	0.81	3.70	3.00	3.45	0.74	5.73
15	2.32	0.71	1.05	3.37	3.63	2.95	0.48	5.48
16	2.00	0.83	1.69	2.41	1.52	3.23	0.70	5.00
17	2.00	1.85	1.18	3.21	0.44	2.74	1.42	7.25
18	2.22	2.52	1.30	2.48	0.24	3.21	2.17	6.85
19	2.72	2.11	2.21	2.71	0.13	2.70	1.32	4.13
20	3.01	1.33	2.39	3.52	0.10	4.18	0.58	3.92
21	2.74	1.48	1.52	2.02	0.58	7.00	0.58	8.18
22	2.42	2.21	2.19	4.04	1.49	6.86	2.74	11.92
23	2.42	1.22	4.25	2.99	1.79	4.98	3.67	8.85
24	2.42	-	4.45	2.84	3.03	1.38	4.05	8.90
25	1.99	1.97	4.73	2.29	2.54	3.98	2.39	13.25
26	2.47	0.25	3.42	3.04	3.42	4.42	2.85	2.36
27	3.04	0.50	1.21	2.67	2.61	4.83	1.04	10.70
28	3.29	1.20	3.47	1.83	0.85	0.60	3.84	7.95
29	3.04	0.61	2.31	0.37	0.18	-	1.67	6.03
30	1.80	0.77	2.69	1.25	0.19	-	3.39	4.58
Average	2.41	1.33	2.55	3.45	2.20	3.84	1.89	6.90

CR:spb:
18.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

July 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	1.80	0.48	1.49	1.60	0.62	-	0.66	-
2	0.46	-	1.02	2.80	0.70	-	1.05	5.98
3	1.31	0.19	0.32	1.90	1.46	-	0.90	7.43
4	2.65	0.32	0.24	2.78	1.98	-	1.01	5.46
5	2.73	0.12	0.12	2.19	0.78	-	1.15	4.95
6	1.54	0.22	0.57	1.39	0.29	1.99	1.65	7.80
7	1.98	0.29	0.99	0.23	0.00	1.77	1.54	6.55
8	1.98	0.40	1.30	0.10	0.07	0.75	1.48	6.45
9	1.91	-	1.08	0.59	0.02	1.32	2.23	6.30
10	1.40	0.16	0.98	0.66	0.10	2.27	2.08	5.85
11	2.68	2.21	1.55	0.89	0.25	2.00	1.51	-
12	1.31	0.0	1.92	1.28	0.08	2.62	0.58	4.65
13	1.04	2.52	1.34	1.07	0.11	2.88	2.62	-
14	1.04	0.62	2.00	0.70	0.12	3.22	3.00	4.25
15	1.04	1.78	1.91	0.14	0.09	2.99	2.60	8.30
16	1.12	1.84	3.36	-	0.09	3.20	2.65	8.53
17	1.05	1.15	1.75	1.26	0.52	3.67	1.90	6.80
18	1.05	1.13	1.91	-	0.55	3.17	1.08	5.26
19	1.32	1.19	1.36	1.57	0.06	3.19	0.69	3.74
20	0.66	1.01	1.82	1.60	0.15	2.48	0.68	3.92
21	0.79	1.80	1.09	1.28	0.18	2.84	0.72	2.36
22	1.08	1.52	1.09	1.98	0.0	1.79	1.45	2.07
23	0.91	1.15	1.58	2.08	0.06	2.89	0.36	1.46
24	0.91	2.31	0.82	4.03	0.34	2.74	1.54	2.51
25	1.00	1.57	0.65	5.00	0.16	1.37	2.04	3.99
26	1.42	0.53	1.41	3.75	0.02	2.23	0.27	4.17
27	-	0.90	1.48	4.75	0.03	3.26	0.59	4.15
28	1.77	-	1.13	2.29	0.13	3.16	1.71	3.66
29	1.77	2.86	0.74	0.30	0.08	2.07	1.44	3.30
30	-	-	0.24	0.39	0.12	0.62	0.80	1.74
31	0.82	2.28	0.73	0.24	0.04	1.49	0.64	0.81
Average	1.40	1.13	1.22	1.68	0.30	2.38	1.37	4.73

CR:spb:
19.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

August 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.82	-	1.44	0.09	0.12	2.25	1.26	1.82
2	0.78	1.45	1.89	0.09	0.07	1.77	0.17	0.72
3	0.78	0.96	1.36	0.14	0.09	0.65	0.34	0.92
4	0.94	1.70	1.40	0.55	0.02	1.15	2.05	2.05
5	0.94	1.24	1.45	0.08	0.09	0.85	2.28	1.86
6	-	1.79	0.22	0.25	0.04	0.16	2.32	0.74
7	-	1.05	0.20	0.23	0.09	0.20	1.82	1.16
8	1.14	1.52	0.11	0.38	0.12	0.25	1.88	1.60
9	1.31	1.07	0.09	0.38	0.07	0.56	1.55	1.74
10	0.73	-	0.10	0.28	0.03	0.93	2.00	2.03
11	0.73	1.96	0.14	0.18	0.11	0.62	1.20	2.64
12	0.73	0.0	0.54	0.04	0.09	0.75	0.97	1.57
13	0.73	0.18	0.65	0.07	0.09	1.03	0.90	0.68
14	-	0.10	0.50	0.04	0.09	1.86	0.34	0.09
15	0.72	0.16	0.33	0.20	0.10	1.39	0.69	1.25
16	0.73	0.26	0.18	0.30	0.20	1.10	1.12	2.39
17	0.69	0.16	0.48	0.17	0.09	0.27	1.13	1.09
18	1.01	0.13	0.68	0.16	0.21	-	1.60	-
19	1.01	0.29	1.09	0.19	0.07	-	1.41	1.32
20	1.06	0.20	1.23	0.02	0.19	-	1.01	0.47
21	0.73	0.27	1.17	0.13	0.36	1.31	0.58	0.26
22	1.00	0.22	0.95	0.21	0.57	1.20	0.55	0.64
23	0.75	-	0.79	0.26	0.12	0.94	0.99	1.09
24	0.75	1.09	0.47	0.56	0.22	0.61	1.46	1.70
25	0.75	0.68	0.26	0.18	0.10	0.76	1.43	0.65
26	0.75	0.80	0.11	0.41	0.15	0.57	0.96	2.78
27	1.65	0.71	0.12	0.15	0.08	0.55	0.69	2.49
28	1.58	0.87	0.41	0.09	0.07	0.22	0.95	1.98
29	1.11	0.91	0.49	0.15	0.06	0.09	0.79	2.05
30	1.54	0.73	0.72	0.13	0.06	0.55	1.00	1.52
31	0.92	-	0.45	0.10	0.12	0.84	0.85	0.89
Average	0.94	0.76	0.65	0.20	0.13	0.84	1.17	1.40

CR:spb:
19.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

September 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.92	1.45	0.52	0.09	0.20	0.99	0.68	0.94
2	0.92	1.33	0.17	0.28	0.15	0.37	0.66	1.03
3	0.90	1.02	0.17	0.36	0.16	0.81	0.85	0.84
4	0.65	0.97	0.09	0.21	0.12	1.13	0.63	1.80
5	0.73	1.09	0.32	0.03	0.06	0.63	0.99	1.23
6	1.03	0.57	0.52	0.06	0.11	0.39	0.32	0.99
7	1.15	0.54	0.47	0.06	-	0.46	0.54	1.09
8	0.99	0.66	0.76	0.14	0.13	0.81	0.77	1.02
9	0.99	0.93	0.46	0.15	0.32	0.62	0.91	0.90
10	1.04	0.56	0.32	0.10	0.17	0.23	0.86	0.74
11	1.09	0.68	0.03	0.38	0.30	0.63	0.82	1.25
12	1.25	1.11	0.08	0.09	0.35	0.45	0.51	1.02
13	0.91	0.88	0.23	0.04	0.14	0.21	1.23	0.83
14	0.71	0.76	0.16	0.04	0.09	0.13	1.33	1.41
15	0.71	1.11	0.26	0.02	0.19	0.54	1.39	1.32
16	0.71	1.37	0.36	0.12	0.23	0.91	1.79	1.42
17	0.71	1.48	0.19	0.38	0.22	1.19	1.35	1.55
18	0.71	1.07	1.08	0.40	0.17	0.94	0.81	1.08
19	1.36	0.74	1.85	0.42	0.41	1.13	2.92	1.47
20	1.90	0.54	1.77	0.46	0.69	1.35	0.22	2.45
21	1.98	0.35	1.76	0.53	0.79	1.20	0.28	1.69
22	1.49	-	0.92	0.40	1.28	1.01	0.14	1.52
23	1.49	0.34	0.67	0.53	1.22	1.47	0.17	1.97
24	1.43	0.16	1.32	0.34	0.81	1.58	0.48	1.55
25	1.83	0.19	1.75	0.49	0.84	1.10	0.30	1.29
26	1.51	0.28	1.61	0.39	0.57	1.61	0.11	1.95
27	1.25	0.66	0.18	0.36	0.50	1.60	0.65	0.83
28	1.15	1.23	0.41	0.32	0.35	1.75	0.85	0.52
29	1.15	1.22	0.73	0.26	0.16	1.25	0.85	0.51
30	1.15	-	0.52	0.28	0.12	1.29	0.47	0.84
Average	1.13	0.83	0.66	0.25	0.37	0.93	0.80	1.24

CR:spb:
20.11.64

TABLE 2 (a)(contd)

Daily Airborne Fallout Beta Activity

October 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.66	1.19	0.19	0.24	0.17	1.14	0.60	1.00
2	1.08	1.00	0.40	0.28	0.24	1.30	0.58	1.27
3	1.08	1.12	0.24	0.30	0.07	1.03	0.80	1.16
4	1.59	0.95	0.63	0.15	0.13	0.85	1.10	-
5	2.16	1.68	0.59	0.18	0.26	0.49	1.50	1.33
6	1.68	1.51	0.19	0.23	0.16	0.47	2.14	0.67
7	1.68	1.26	0.11	0.17	0.48	0.55	1.42	0.48
8	1.59	0.74	0.24	0.15	0.36	1.15	1.10	1.06
9	1.38	0.18	0.24	0.07	0.29	1.31	0.81	1.08
10	1.33	0.22	0.23	-	0.50	1.26	0.43	1.12
11	1.89	0.39	0.40	0.18	1.12	1.02	0.16	1.21
12	0.69	0.27	0.32	0.13	1.53	0.66	0.18	1.73
13	0.69	0.75	0.19	0.13	1.49	0.21	0.56	1.55
14	0.69	0.67	0.12	0.15	1.40	0.30	0.32	1.18
15	0.41	-	0.16	0.17	1.43	0.17	0.29	0.99
16	0.97	-	0.36	0.95	1.43	0.34	-	1.38
17	-	-	1.33	0.75	0.92	0.50	-	1.85
18	-	-	1.32	1.08	0.64	0.70	0.10	1.52
19	-	-	1.02	1.17	0.57	0.48	0.11	1.29
20	-	-	1.09	0.99	0.83	0.38	0.52	1.25
21	-	-	1.39	0.87	0.88	0.48	-	1.30
22	0.48	0.13	1.33	0.78	1.21	0.90	-	1.01
23	0.58	0.11	1.06	0.91	1.33	0.14	0.08	0.71
24	0.98	0.30	1.15	0.95	0.63	0.07	0.29	0.50
25	1.40	-	0.07	0.97	0.30	0.15	0.24	0.50
26	0.99	0.77	0.05	0.58	0.37	0.17	0.46	1.14
27	0.98	0.85	0.06	0.80	0.85	0.44	-	0.83
28	0.98	1.06	0.16	0.90	1.34	0.36	0.81	0.82
29	1.14	0.97	0.57	0.59	1.34	0.74	0.97	0.57
30	1.34	1.19	0.42	0.63	1.35	0.83	1.01	0.29
31	1.44	1.11	0.45	0.69	1.13	0.66	0.67	0.33
Average	1.15	0.80	0.52	0.54	0.80	0.62	0.66	1.04

CR:spb:
22.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

November 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	1.11	-	0.75	0.53	1.28	0.54	0.40	0.47
2	0.80	-	0.85	0.48	0.82	0.71	0.35	-
3	0.77	-	0.66	0.40	0.35	0.59	0.34	0.25
4	0.77	0.49	0.58	0.46	0.39	0.60	0.36	0.55
5	0.81	0.00	0.40	0.43	0.38	0.43	0.02	0.94
6	0.83	0.78	0.35	0.48	1.04	0.45	0.18	0.72
7	-	1.07	0.72	0.29	0.91	0.46	0.44	0.15
8	1.12	2.46	0.56	0.17	1.28	0.63	1.09	1.32
9	0.78	1.01	0.65	0.18	1.58	0.55	0.78	1.58
10	0.78	-	0.63	0.46	1.45	0.60	0.59	1.34
11	0.78	1.33	0.63	1.05	1.58	0.78	0.37	0.85
12	0.80	0.95	0.59	1.12	1.48	1.13	0.69	0.79
13	0.80	0.88	0.93	0.98	1.25	0.92	0.23	0.78
14	0.99	0.62	1.06	1.07	1.14	0.85	0.20	1.11
15	0.90	0.83	1.15	0.76	0.98	0.72	0.18	0.09
16	0.90	1.42	1.09	0.43	0.92	0.70	-	0.08
17	0.58	0.72	0.77	0.26	1.24	0.84	0.20	0.81
18	0.58	0.24	0.88	0.65	0.77	0.72	0.20	0.86
19	0.58	0.37	0.77	0.60	0.86	0.79	0.00	0.95
20	0.61	0.48	0.72	0.67	0.83	-	0.05	-
21	0.68	0.35	0.69	0.48	1.23	0.88	0.08	0.54
22	0.45	0.11	0.57	-	1.07	0.57	0.08	0.30
23	0.36	0.15	0.49	0.78	0.85	0.30	0.19	1.00
24	0.36	0.58	0.32	1.08	0.92	0.24	0.15	-
25	0.36	0.53	0.94	1.35	1.15	0.21	0.28	2.66
26	0.36	0.59	1.90	0.97	1.15	0.29	0.48	1.51
27	0.39	0.27	1.27	1.93	1.22	0.74	0.34	1.09
28	0.33	0.71	0.59	0.98	1.50	0.52	0.26	0.72
29	0.27	1.98	0.94	0.89	1.02	0.79	0.21	1.41
30	0.77	0.42	0.82	0.97	1.00	0.87	0.09	0.63
Average	0.68	0.74	0.78	0.72	1.05	0.64	0.30	0.87

CR:spb:
22.10.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

December 1963

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.80	0.74	0.80	1.37	0.80	0.76	0.08	0.51
2	0.80	1.20	0.73	0.65	0.79	0.56	0.17	0.73
3	0.80	0.23	0.61	0.34	0.78	0.56	0.05	0.59
4	0.75	0.46	0.96	0.36	0.77	0.59	0.17	0.59
5	-	0.50	0.89	0.32	0.81	0.78	0.05	0.45
6	1.15	0.58	0.57	0.71	0.94	0.77	-	0.35
7	0.96	0.26	0.84	0.61	1.15	0.75	0.16	0.30
8	0.90	0.45	0.59	0.70	1.27	0.89	0.07	-
9	0.90	-	0.85	0.69	0.88	0.80	-	0.46
10	0.90	0.14	0.96	0.67	0.48	0.80	0.09	-
11	0.73	0.31	0.74	0.62	1.12	0.46	0.09	0.63
12	0.43	0.63	0.73	0.88	0.94	1.14	0.33	-
13	0.43	0.13	0.60	0.65	1.51	1.13	0.56	-
14	2.24	0.65	0.55	0.58	1.01	0.60	0.34	-
15	1.30	0.50	0.80	0.00	0.99	1.36	0.52	1.20
16	1.30	0.16	0.81	0.67	0.95	1.30	0.24	1.00
17	1.34	0.63	1.19	0.77	0.96	0.76	0.53	-
18	1.27	0.84	1.53	0.53	1.11	0.95	0.52	0.95
19	0.95	-	1.40	0.54	1.42	0.98	1.07	1.91
20	1.27	1.83	1.09	0.58	1.24	0.95	0.75	-
21	1.50	-	0.91	0.50	1.77	0.96	0.71	-
22	1.46	1.45	1.05	0.47	2.14	0.69	0.09	0.94
23	1.46	0.62	-	1.05	1.64	1.05	0.0	1.00
24	1.10	0.06	-	1.41	1.28	0.82	-	0.89
25	0.93	-	-	1.04	1.64	1.04	0.59	0.81
26	0.93	1.54	-	0.83	1.60	1.25	0.37	1.01
27	0.69	0.74	1.53	0.62	1.51	1.29	0.29	1.15
28	0.69	1.19	1.42	0.93	1.67	0.91	0.38	1.09
29	0.69	1.04	-	1.48	0.76	-	0.12	1.26
30	0.69	0.76	-	0.79	0.78	1.60	1.54	0.67
31	1.13	1.37	-	0.77	1.67	1.61	1.07	0.48
Average	1.02	0.71	0.92	0.74	1.17	0.94	0.39	0.82

CR:spb:
22.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

January 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.26	1.03	-	1.17	1.52	1.60	0.76	1.10
2	0.26	1.54	-	1.15	1.83	1.79	0.92	1.91
3	1.55	1.05	-	0.85	1.45	1.29	-	1.50
4	1.99	0.64	-	1.27	1.41	0.78	1.23	1.45
5	0.96	1.08	-	1.18	1.88	1.23	0.74	1.01
6	0.96	0.61	-	0.92	1.73	1.55	0.47	0.21
7	1.68	1.42	-	0.75	1.53	0.67	-	0.12
8	1.41	1.32	-	1.10	1.37	0.92	1.13	0.04
9	1.53	1.26	-	0.56	1.35	0.45	0.62	0.09
10	1.24	-	-	0.39	1.45	0.70	1.10	0.33
11	1.17	1.70	-	0.41	1.32	1.04	0.68	-
12	1.17	0.76	-	1.29	1.62	1.06	0.69	1.33
13	1.17	0.36	-	1.21	1.46	1.89	0.77	0.80
14	2.14	0.59	-	1.11	1.56	1.44	0.64	1.52
15	2.02	0.56	-	1.23	1.65	-	0.67	0.94
16	2.18	0.42	-	1.35	1.73	0.90	0.60	2.56
17	1.69	1.04	-	1.30	2.07	1.42	0.58	2.00
18	1.00	0.94	-	2.17	2.07	1.15	0.56	1.78
19	1.40	0.68	-	1.72	1.81	1.28	-	1.93
20	1.40	0.68	-	1.26	2.27	0.56	-	1.85
21	1.99	1.27	-	2.06	1.79	1.08	0.79	1.50
22	-	1.37	-	-	-	1.16	0.52	-
23	-	0.75	-	2.14	1.96	1.10	0.70	1.52
24	-	0.43	-	2.61	1.71	1.17	0.54	1.31
25	-	0.16	-	2.58	0.0	1.45	0.65	1.63
26	-	0.58	-	2.51	0.46	1.57	0.43	1.88
27	-	1.33	-	2.35	-	2.05	0.34	2.23
28	-	1.24	-	2.35	-	1.79	1.15	2.13
29	-	0.96	-	2.15	3.22	2.00	0.79	2.22
30	-	1.11	-	2.37	2.88	2.05	0.81	2.50
31	-	1.70	-	1.86	3.01	1.48	0.56	2.39
Average	1.35	0.95	-	1.51	1.72	1.29	0.69	1.41

CR:Spb:
22.11.64

TABLE 2 (a)(contd)

Daily Airborne Fallout Beta Activity

February 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.68	0.93	-	1.82	2.32	1.06	0.65	2.22
2	0.22	0.84	-	1.29	2.76	1.82	0.37	1.88
3	0.22	1.05	-	1.89	2.48	1.42	0.30	1.61
4	1.00	1.49	-	2.02	2.33	1.42	0.81	1.53
5	-	1.27	-	1.27	2.66	-	0.66	1.21
6	0.82	1.23	-	1.45	2.84	1.23	1.40	1.76
7	0.81	0.57	-	1.47	2.25	1.07	0.50	1.12
8	-	0.57	-	1.20	0.03	0.76	0.81	1.85
9	-	0.68	-	1.74	2.30	0.84	0.83	1.39
10	-	-	-	1.14	2.11	0.61	1.00	0.94
11	-	1.00	-	0.59	1.54	0.71	-	0.97
12	-	0.98	-	0.89	-	0.89	0.56	0.96
13	0.44	0.66	-	0.82	1.49	0.87	0.51	0.91
14	0.35	0.83	-	1.32	-	0.95	0.57	0.88
15	-	-	-	1.23	-	0.86	0.73	0.87
16	-	1.81	-	0.97	0.60	0.78	0.61	0.44
17	-	0.72	-	0.81	0.90	0.38	0.59	0.48
18	0.44	0.73	-	0.68	0.0	0.77	0.58	0.14
19	0.48	0.23	-	1.15	1.18	0.62	0.34	1.38
20	-	0.27	-	1.44	0.69	0.65	0.21	1.75
21	-	0.15	0.90	1.76	1.00	0.79	0.13	1.76
22	-	0.32	0.89	1.73	1.38	0.45	0.22	0.69
23	-	0.21	0.50	1.54	1.30	-	0.12	0.46
24	-	-	0.63	1.76	1.66	1.85	0.12	1.04
25	-	0.12	0.43	1.67	3.10	1.93	0.45	1.27
26	-	0.08	2.45	2.23	2.66	1.44	0.37	1.35
27	-	0.08	1.65	2.15	3.18	0.81	0.39	1.49
28	-	0.0	0.44	1.75	3.00	0.53	0.23	1.43
29	-	0.08	0.71	2.09	2.68	0.59	0.76	1.44
Average	0.75	0.63	0.96	1.36	1.86	1.00	0.53	1.21

CR:spb:
23.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

March 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	-	0.34	0.59	-	1.50	0.42	0.94	1.20
2	-	-	0.44	-	1.32	0.58	0.81	1.88
3	0.38	0.67	0.91	-	1.99	0.78	0.43	0.38
4	-	0.78	0.28	-	1.19	1.09	-	1.41
5	-	0.27	0.69	-	1.16	1.08	0.20	1.36
6	-	0.57	1.31	-	1.48	1.43	0.60	1.35
7	-	0.59	1.51	-	1.87	1.63	0.56	2.03
8	-	0.32	1.28	-	1.26	1.52	0.77	1.24
9	-	1.20	1.69	-	1.44	1.87	0.49	1.77
10	-	0.91	1.74	-	2.28	1.81	0.73	0.82
11	-	1.62	1.67	-	2.28	0.77	0.48	0.36
12	0.41	0.86	1.60	-	2.70	0.83	1.69	1.11
13	0.56	0.67	1.48	-	2.42	0.85	1.13	1.71
14	-	0.93	1.22	-	1.09	0.78	0.55	1.08
15	-	0.58	0.73	-	2.34	1.02	0.67	1.37
16	-	0.83	1.72	-	2.37	1.52	1.01	1.05
17	0.31	0.75	1.44	-	2.01	1.68	1.18	0.62
18	0.44	1.11	1.22	-	1.88	0.76	1.23	0.81
19	0.50	1.18	0.79	-	1.98	0.72	1.62	0.12
20	-	0.66	0.75	-	1.05	-	0.95	0.09
21	0.45	0.77	0.79	-	0.55	1.55	0.56	0.57
22	-	0.10	1.89	-	1.02	0.98	0.42	1.01
23	-	0.32	1.31	-	1.32	1.65	0.60	1.14
24	-	0.30	1.46	-	1.24	1.84	0.55	0.75
25	0.64	0.50	0.97	-	1.46	1.32	0.97	0.10
26	-	1.22	1.27	-	1.32	0.04	0.95	1.31
27	0.42	0.22	0.85	-	1.27	0.67	0.75	1.44
28	-	1.12	0.89	-	1.16	0.76	0.53	1.33
29	-	0.51	1.70	-	1.17	1.03	0.46	0.97
30	-	-	0.87	-	1.38	-	0.31	1.31
31	0.58	0.42	0.86	-	0.96	0.48	0.48	1.35
Average	0.64	0.66	1.12	-	1.56	1.09	0.75	1.06

CR:spb:23.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

April 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.48	0.28	1.15	1.65	1.24	0.89	0.64	0.40
2	0.65	0.36	0.50	1.76	1.20	1.35	0.50	0.37
3	0.86	0.55	0.47	0.76	1.20	2.13	0.34	0.78
4	0.77	0.88	0.45	2.23	0.65	1.65	0.58	0.76
5	0.94	0.59	0.69	1.47	1.66	1.39	0.84	1.47
6	0.94	0.36	0.62	1.80	2.26	1.85	1.16	1.18
7	0.78	1.03	0.38	1.66	2.26	1.02	1.26	0.49
8	0.51	1.35	0.38	1.60	1.76	1.26	1.00	0.67
9	0.57	0.90	1.01	1.01	1.06	1.25	1.26	0.21
10	0.77	0.52	0.53	1.24	1.15	1.00	0.61	1.17
11	-	0.18	0.31	1.13	0.94	1.01	0.14	0.63
12	-	0.0	0.23	1.01	0.69	1.15	0.11	0.34
13	-	0.24	0.29	0.95	0.93	0.79	0.13	0.53
14	0.38	0.53	0.25	0.86	0.74	0.78	0.62	0.45
15	0.40	0.92	0.23	0.80	0.69	0.76	0.76	1.13
16	0.48	0.44	0.41	1.13	1.26	0.51	-	0.03
17	0.38	0.36	0.43	0.66	0.63	1.09	0.37	1.64
18	0.50	0.80	0.27	1.58	1.41	1.54	0.88	2.46
19	-	1.04	0.23	1.77	2.04	2.49	0.83	1.85
20	-	1.10	0.93	1.16	2.40	2.49	1.05	2.05
21	-	1.28	0.63	0.85	2.74	1.81	1.02	0.44
22	-	1.33	-	0.41	2.16	1.37	1.10	0.67
23	-	1.45	-	0.47	1.24	1.00	1.47	1.10
24	-	1.33	-	-	0.90	0.89	1.16	1.23
25	-	0.98	-	0.32	1.34	1.07	0.67	0.50
26	-	0.72	-	-	0.74	1.11	1.72	0.44
27	-	0.50	-	0.76	0.77	0.68	1.01	1.26
28	-	0.67	-	0.90	0.92	0.67	0.69	0.77
29	-	0.72	-	0.72	0.91	0.70	0.87	1.53
30	-	0.63	-	1.94	0.77	0.77	0.37	1.27
Average	0.86	0.76	0.49	1.16	1.29	1.13	0.80	0.93

CR:spb:23.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

May 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	-	0.32	-	2.74	0.34	0.75	0.52	1.20
2	0.31	0.48	-	1.96	0.57	1.22	0.60	1.37
3	0.32	0.46	-	1.92	1.36	0.93	0.50	1.13
4	-	0.91	-	1.33	0.86	1.32	-	0.93
5	-	1.14	-	0.96	0.66	0.96	1.37	1.10
6	-	-	-	1.38	0.31	1.12	1.48	0.77
7	1.04	1.54	-	1.73	0.52	0.83	0.80	1.60
8	-	1.47	-	1.54	1.45	1.30	1.17	0.85
9	-	1.61	-	1.38	0.20	1.34	-	-
10	-	1.37	-	0.95	-	1.36	-	1.11
11	-	1.20	-	1.09	-	1.41	1.47	1.27
12	0.45	1.05	-	0.65	0.62	1.49	1.11	0.98
13	-	0.91	-	0.82	-	1.36	1.04	1.01
14	0.33	1.01	-	0.61	0.65	1.91	0.91	0.87
15	-	0.67	-	0.68	0.88	1.71	0.81	0.39
16	0.36	0.80	-	0.69	1.08	1.24	0.55	1.02
17	-	0.71	-	1.32	1.35	1.28	0.65	1.21
18	-	0.83	-	1.38	0.92	1.34	0.86	0.86
19	-	0.70	-	1.62	1.10	1.37	1.10	1.06
20	-	0.59	-	0.86	1.47	1.09	0.53	0.89
21	0.55	0.65	-	0.55	1.71	0.66	0.77	0.69
22	0.28	1.05	-	0.77	1.06	0.87	0.97	1.36
23	0.28	1.13	-	0.97	0.83	0.78	0.94	1.70
24	0.28	0.62	-	1.41	0.76	1.10	0.90	1.38
25	0.28	0.85	-	1.99	0.66	1.55	0.90	1.64
26	0.39	0.74	-	2.09	1.79	0.62	0.85	1.53
27	0.36	0.64	-	1.59	1.71	0.20	1.15	1.35
28	-	0.66	-	0.49	2.21	0.62	1.18	1.62
29	-	0.70	-	0.85	2.37	0.84	0.94	1.65
30	-	0.74	-	2.17	1.82	0.65	0.81	1.31
31	-	0.82	-	2.38	1.55	1.07	0.92	0.99
Average	0.55	0.88	-	1.32	1.10	1.11	0.92	1.16

CR:spb:24.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

June 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.33	0.62	-	0.98	0.96	1.46	0.94	0.96
2	0.16	0.78	-	0.54	0.77	0.78	0.75	0.66
3	0.16	0.53	-	0.70	0.84	0.59	-	0.60
4	0.11	0.59	-	0.69	0.73	0.61	-	0.25
5	0.13	0.32	-	0.87	0.76	0.79	-	0.39
6	0.07	0.40	-	0.97	0.74	0.75	0.43	1.10
7	0.07	0.48	-	0.93	0.76	0.51	0.23	1.05
8	0.07	0.07	-	0.25	0.87	0.60	0.0	0.00
9	0.07	0.25	-	1.04	0.89	0.66	0.32	2.55
10	0.08	0.36	-	1.32	1.24	0.55	0.37	1.43
11	-	0.23	-	1.06	0.71	0.20	0.40	1.18
12	0.23	0.40	-	1.09	0.14	0.04	0.39	1.11
13	0.24	0.22	-	0.79	0.22	0.17	0.54	0.84
14	0.24	0.40	-	0.47	0.05	0.28	0.21	0.39
15	0.24	0.37	-	0.54	0.08	0.55	0.49	0.04
16	0.19	-	-	0.96	0.05	0.62	0.20	1.20
17	0.20	0.62	-	1.24	0.11	0.75	-	1.43
18	0.23	0.48	-	0.34	0.0	0.42	-	1.27
19	0.14	0.57	-	1.17	0.15	0.70	-	1.12
20	0.24	0.55	-	0.80	0.06	0.69	0.46	0.99
21	0.25	0.36	-	0.62	0.18	0.84	0.20	1.15
22	0.25	0.74	-	0.23	0.23	0.77	0.24	1.01
23	0.19	0.32	-	0.08	0.11	0.33	0.24	0.94
24	0.18	0.27	-	0.12	0.03	0.27	0.14	1.14
25	0.13	0.18	-	0.12	0.09	0.36	0.14	0.64
26	0.14	0.46	-	0.25	0.17	0.27	0.46	0.77
27	-	0.32	-	0.19	0.18	0.14	0.42	0.79
28	-	0.55	-	0.94	-	0.22	0.62	1.00
29	-	0.67	-	0.10	-	0.16	0.47	1.09
30	0.36	0.34	-	0.10	-	-	0.44	0.93
Average	0.25	0.43	-	0.65	0.41	0.52	0.38	0.93

CR:spb:25.11.64

TABLE 2 (a) (contd)

Daily Airborne Fallout Beta Activity

July 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.10	0.27	-	0.15	0.31	0.30	0.48	0.57
2	0.09	0.17	-	0.03	0.25	0.23	0.41	0.43
3	0.18	0.16	-	0.08	0.40	0.06	0.02	0.26
4	0.23	0.48	-	0.09	0.65	0.22	0.07	0.22
5	0.11	0.21	-	0.09	0.11	0.32	0.26	0.55
6	0.11	0.23	-	0.07	0.08	0.19	0.33	1.14
7	0.15	0.20	-	-	0.0	0.33	0.41	1.08
8	0.13	0.35	-	0.13	0.0	0.42	0.06	1.53
9	0.12	0.15	-	0.05	0.02	0.27	-	2.15
10	0.09	0.37	-	0.11	0.03	0.33	-	-
11	-	0.04	-	0.03	0.04	0.35	-	-
12	-	0.31	-	0.04	0.08	0.18	-	0.55
13	-	0.36	-	0.04	0.18	0.31	-	0.29
14	0.14	0.05	-	0.05	0.12	0.17	-	0.06
15	0.08	0.09	-	0.0	0.09	0.08	-	0.12
16	0.18	0.0	-	0.03	0.24	0.17	-	0.57
17	0.12	0.03	-	0.03	0.16	0.05	-	0.35
18	0.13	0.09	-	0.06	-	0.08	-	0.70
19	-	0.48	-	-	0.04	0.08	-	1.26
20	0.06	0.19	-	0.05	0.0	0.24	-	1.34
21	0.09	0.25	-	0.03	0.04	0.16	-	0.90
22	0.03	0.38	-	0.05	-	0.21	-	1.13
23	0.16	0.11	-	0.12	-	0.13	-	1.36
24	0.08	0.13	-	0.03	-	0.10	-	0.94
25	0.04	0.27	-	-	-	0.09	-	0.37
26	0.04	0.15	-	-	0.14	-	-	0.07
27	0.04	0.10	-	-	-	0.31	-	-
28	0.05	0.18	-	-	-	0.09	-	0.11
29	-	0.06	-	-	0.09	0.15	-	0.07
30	-	0.05	-	-	-	0.06	-	0.29
31	-	0.08	-	-	0.11	0.07	-	0.68
Average	0.16	0.19	-	0.06	0.10	0.19	0.26	0.66

CR:spb:25.11.64

TABLE 2(a)(contd)

Daily Airborne Fallout Beta Activity

August 1964

Micro-microcuries per cubic meter of air

Date	Bombay	Bangalore	Calcutta	Delhi	Gangtok	Nagpur	Ootacamund	Srinagar
1	0.06	0	-	-	0.02	0.25	-	0.76
2	-	0.07	-	-	0.02	0.20	-	0.52
3	-	0.0	-	-	0.19	0.0	-	0.61
4	-	0.0	-	-	0.09	0.0	-	0.63
5	-	0.0	-	0.0	0.11	0.04	-	0.57
6	-	0.0	-	0.49	0.06	0.13	-	0.40
7	0.01	-	-	0.14	0.09	0.23	-	0.55
8	-	0.12	-	0.03	0.04	0.07	-	0.42
9	-	0.11	-	0.01	0.0	0.02	-	0.18
10	-	0.03	-	0.01	0.0	0.07	-	0.28
11	0.03	0.23	-	0.01	0.06	0.0	-	0.10
12	0.04	0.0	-	0.03	0.07	0.14	-	0.06
13	0.02	-	-	0.07	0.04	0.0	-	0.10
14	-	0.11	-	0.0	0.08	0.03	-	0.24
15	-	0.23	-	0.0	0.02	0.15	-	0.24
16	-	0.04	-	0.06	0.0	0.21	-	0.14
17	-	-	-	0.0	0.07	0.03	-	0.00
18	-	0.23	-	0.0	0.0	0.04	-	0.10
19	-	0.13	-	0.0	0.10	0.04	-	0.06
20	0.05	0.11	-	0.07	0.07	0.0	0.25	0.14
21	-	0.13	-	0.01	0.13	0.05	0.29	0.10
22	-	0.11	-	0.05	0.07	0.12	0.16	0.11
23	-	0.02	-	0.11	0.03	0.09	0.30	0.18
24	-	0.16	-	0.08	0.06	0.08	0.07	0.11
25	0.05	-	-	0.17	0.0	0.12	0.32	0.10
26	0.03	-	-	0.08	0.0	0.18	0.10	0.16
27	-	-	-	0.03	0.0	0.12	0.25	0.10
28	-	-	-	0.17	0.0	0.11	0.24	0.14
29	-	-	-	-	0.04	0.04	-	0.20
30	-	-	-	0.13	0.18	0.08	0.20	-
31	-	-	-	0.03	0.10	0.02	0.25	-
Average	0.05	0.08	-	0.07	0.05	0.09	0.22	0.25

CR:spb:25.11.64

Table-2(a)(contd)

Daily Airborne Fallout beta activity

May 1965

Micro-microcuries per cubic meter of air

Date	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Gulmarg	Nagpur	Nainital	Ootacamund	Srinagar
1.	0.18	0.12	0.07	0.11	0.12	0.15	0.03	0.43	0.07	0.08
2.	0.14	0.11	0.11	0.11	0.11	0.40	0.03	0.13	0.08	0.19
3.	0.30	0.11	0.02	0.05	0.05	0.15	0.08	0.27	0.13	0.23
4.	0.22	0.04	0.09	0.19	0.03	-	0.03	0.31	0.11	0.14
5.	0.11	0.05	0.03	0.17	0.13	-	0.03	0.36	0.57	0.20
6.	0.17	0.06	0.05	0.23	0.03	0.03	0.09	0.45	0.33	0.11
7.	0.21	0.06	0.06	0.12	t	t	-	0.05	0.10	0.17
8.	0.23	0.12	0.03	0.10	0.02	0.18	t	0.18	0.08	0.17
9.	0.25	0.12	t	0.19	0.02	0.14	0.04	0.21	0.10	0.12
10.	0.26	0.12	0.02	0.06	t	0.12	0.07	0.27	0.25	0.25
11.	0.37	0.26	0.12	0.29	t	0.23	0.19	0.18	0.12	0.31
12.	0.23	0.17	0.05	0.25	0.04	0.39	0.19	0.13	0.21	0.18
13.	0.25	0.17	0.05	0.16	t	0.14	0.14	0.35	0.26	0.15
14.	0.34	0.20	0.07	0.14	0.02	0.18	0.12	0.09	0.14	0.15
15.	0.25	0.17	0.10	0.13	0.08	0.36	0.07	0.21	0.21	0.18

(Contd)

CR:mi
13-1-'66

Table-2(a)(contd)

Daily Airborne Fallout beta activity

May 1965 (Contd)
Micro-microcuries per cubic meter of air

Date	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Gulmarg	Nagpur	Nainital	Ootacamund	Srinagar
16.	0.31	0.30	0.06	0.14	0.04	0.62	0.23	0.10	0.20	0.41
17.	0.12	0.27	0.13	0.26	0.01	0.63	0.23	0.14	0.04	0.16
18.	0.13	0.17	0.08	0.10	t	0.45	0.06	0.24	0.15	0.18
19.	0.18	0.13	0.05	0.14	t	1.93	0.22	0.16	0.09	0.45
20.	t	0.12	0.11	0.14	t	0.81	0.20	0.14	0.15	0.28
21.	t	0.14	0.05	0.37	0.05	-	0.16	0.13	0.17	0.08
22.	0.32	0.07	0.06	0.14	0.04	0.11	0.37	0.13	0.05	0.08
23.	0.31	0.17	-	0.05	t	0.06	0.28	0.41	0.10	0.04
24.	0.36	-	t	0.21	-	0.03	0.41	0.42	0.23	t
25.	0.37	0.07	0.02	0.20	0.08	0.08	0.22	0.22	0.15	0.06
26.	0.77	0.21	0.05	0.21	0.02	0.25	0.29	0.36	0.24	0.14
27.	0.31	0.18	0.08	0.28	0.03	0.40	0.22	0.42	0.33	0.10
28.	0.20	0.24	0.04	0.28	0.11	0.32	0.07	0.41	0.30	0.26
29.	0.04	0.24	0.09	0.26	0.10	0.70	0.30	0.43	0.09	0.42
30.	0.29	0.10	0.06	0.28	0.15	0.41	0.23	0.36	0.14	0.39
31.	0.28	0.10	0.08	0.22	0.11	2.12	t	0.66	0.34	1.49
Average	0.24	0.15	0.06	0.18	0.05	0.41	0.15	0.27	0.18	0.23

CR:mi
13-1-'66

Table-2(a)(contd)

Daily Airborne fallout beta activity

June 1965

(Micro-microcuries per cubic meter of air)

Date	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Gulmarg	Nagpur	Nainital	Ootacamund	Srinagar
1.	0.10	0.15	0.10	0.48	0.05	2.14	0.10	1.93	0.34	1.18
2.	0.17	0.04	0.67	0.22	0.02	2.49	0.49	1.81	0.52	1.92
3.	0.23	0.08	0.03	0.48	0.03	2.32	0.30	0.96	0.18	1.46
4.	0.28	-	0.04	1.14	0.26	2.06	0.30	1.91	0.27	1.12
5.	0.24	0.07	0.07	0.76	0.16	1.42	0.07	0.92	0.17	0.86
6.	0.21	0.25	0.21	0.25	0.14	0.46	0.18	1.14	t	0.22
7.	0.12	0.37	0.15	0.42	0.02	0.15	0.39	1.38	0.06	0.25
8.	0.04	0.28	0.20	0.69	0.14	0.63	0.68	1.00	0.14	0.35
9.	0.11	0.29	0.23	0.73	0.13	0.46	0.81	0.84	0.09	0.17
10.	0.17	0.17	0.15	0.82	0.21	0.96	0.72	0.86	t	0.42
11.	0.44	0.27	0.17	0.59	0.04	0.81	0.37	1.27	t	0.43
12.	0.18	0.22	0.21	0.37	0.11	0.90	0.29	0.45	0.17	0.35
13.	0.33	0.12	0.15	0.43	0.16	0.70	0.16	0.67	0.25	0.36
14.	0.40	0.12	-	0.37	0.12	0.57	0.20	0.63	0.24	0.27
15.	0.33	-	0.21	0.40	0.03	0.65	0.32	0.48	0.24	0.24

(Contd)

CR:mi
13-1-'66

Table-2(a)(contd)

Daily Airborne fallout beta activity

June 1965(Contd)

(Micro-microcuries per cubic meter of air)

Date	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Gulmarg	Nagpur	Nainital	Ootacamund	Srinagar
16.	0.32	-	0.11	-	0.06	0.39	0.44	0.48	0.30	0.25
17.	0.29	0.13	0.02	0.28	0.02	0.45	0.24	0.59	0.20	0.31
18.	0.21	0.16	0.09	0.29	t	0.60	0.18	0.43	0.15	0.26
19.	0.02	0.11	0.07	0.28	0.01	0.78	0.16	0.46	0.26	0.29
20.	0.39	0.08	0.09	0.25	0.03	0.29	0.10	0.60	0.09	0.24
21.	0.04	0.10	0.06	0.34	0.06	0.200	0.22	0.44	0.08	0.38
22.	0.24	0.17	0.05	0.24	0.03	0.19	0.09	0.36	0.15	0.11
23.	0.17	0.04	0.13	0.11	0.03	0.24	0.06	0.11	0.23	0.04
24.	0.73	0.11	0.10	0.13	0.04	0.20	0.10	0.17	0.22	0.16
25.	0.06	0.13	0.02	0.08	0.05	0.75	0.14	0.23	0.05	0.21
26.	0.26	0.04	0.02	0.06	0.02	0.43	t	0.15	0.12	0.25
27.	0.24	0.04	0.06	0.03	t	0.55	0.11	0.27	0.17	0.20
28.	0.22	0.04	0.08	0.08	0.03	0.39	0.11	0.38	0.17	0.17
29.	0.59	0.11	0.03	0.05	0.03	0.48	0.26	0.12	0.06	0.23
30.	0.09	0.07	-	0.08	0.05	0.37	0.11	0.15	0.22	0.12
Average	0.24	0.14	0.13	0.36	0.07	0.77	0.26	0.71	0.17	0.43

CR:mi
13-1-'66

Table-2(b)

Daily airborne fallout beta activity at different sites in Bombay

January 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed. I *	Electronics shed. II	C.I.R
1-1-63	6.80	7.95	-
2-1-63	6.80	7.95	8.10
3-1-63	7.85	8.73	6.85
4-1-63	9.78	10.20	8.10
5-1-63	9.90	8.95	11.50
6-1-63	9.90	8.95	-
7-1-63	9.90	8.95	10.50
8-1-63	16.10	16.70	13.90
9-1-63	15.00	13.35	7.95
10-1-63	15.45	14.40	7.95
11-1-63	12.85	13.00	-
12-1-63	10.35	12.60	-
13-1-63	7.33	8.90	-
14-1-63	7.33	8.90	8.40
15-1-63	8.30	6.88	-
16-1-63	-	-	11.90
17-1-63	9.20	7.70	8.33
18-1-63	9.20	7.70	8.33
19-1-63	8.48	7.55	8.00
20-1-63	6.90	6.42	-
21-1-63	6.90	6.42	4.75
22-1-63	7.80	7.43	7.00
23-1-63	8.45	7.70	7.90
24-1-63	8.94	8.68	9.85
25-1-63	14.20	11.60	9.85
26-1-63	11.20	9.00	8.18
27-1-63	11.20	9.00	8.18
28-1-63	11.20	9.00	8.18
29-1-63	9.75	6.85	7.00
30-1-63	10.60	10.00	6.80
31-1-63	10.90	9.90	-
Average	9.95	9.38	6.53

* Esparto grass filter paper

CR:mi
21-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

February 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed I*	Electronics shed II	C.I.R
1-2-63	8.23	9.90	-
2-2-63	8.23	9.90	9.55
3-2-63	11.75	10.35	-
4-2-63	11.75	10.35	-
5-2-63	12.55	12.40	-
6-2-63	9.93	11.20	8.25
7-2-63	9.65	7.20	9.85
8-2-63	-	9.45	9.10
9-2-63	-	-	7.10
10-2-63	-	-	7.10
11-2-63	-	-	7.10
12-2-63	9.75	8.34	7.10
13-2-63	9.40	8.90	8.85
14-2-63	9.60	8.27	6.18
15-2-63	6.32	5.90	6.18
16-2-63	5.90	5.17	-
17-2-63	6.37	5.68	-
18-2-63	6.37	5.68	8.40
19-2-63	8.50	7.78	-
20-2-63	7.08	8.45	-
21-2-63	7.75	8.70	-
22-2-63	6.53	5.12	-
23-2-63	6.53	5.12	-
24-2-63	6.53	5.12	-
25-2-63	6.53	5.12	-
26-2-63	7.10	6.40	-
27-2-63	7.10	6.40	-
28-2-63	13.10	11.35	-
Average	8.45	7.90	7.90

* Esparto grass filter paper

CR:mi
21-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

March 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed I*	Electronics shed II	C.I.R
1-3-63	5.75	7.25	-
2-3-63	5.75	7.25	-
3-3-63	6.90	6.92	-
4-3-63	6.90	6.92	-
5-3-63	6.54	5.51	5.48
6-3-63	5.48	5.43	5.78
7-3-63	10.00	9.07	9.06
8-3-63	16.50	13.80	9.06
9-3-63	-	8.00	-
10-3-63	-	8.00	-
11-3-63	-	8.00	-
12-3-63	-	8.00	-
13-3-63	17.10	15.90	-
14-3-63	14.70	14.50	14.40
15-3-63	12.20	10.90	11.10
16-3-63	13.60	12.70	10.80
17-3-63	17.70	21.10	-
18-3-63	17.70	21.10	18.00
19-3-63	22.30	17.40	20.50
20-3-63	14.65	13.10	15.40
21-3-63	14.90	12.40	-
22-3-63	-	10.80	28.70
23-3-63	-	9.20	-
24-3-63	-	9.20	-
25-3-63	-	9.20	-
26-3-63	15.40	11.40	39.50
27-3-63	15.40	11.40	24.70
28-3-63	22.30	21.80	20.70
29-3-63	16.00	15.50	-
30-3-63	14.40	8.50	14.30
31-3-63	11.30	9.30	-
Average	13.20	11.30	16.50

* Esparto grass filter paper

CR:mi
22-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

April 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed I*	Electronics shed II
1-4-63	11.30	9.30
2-4-63	12.70	10.50
3-4-63	12.70	10.50
4-4-63	11.25	12.50
5-4-63	10.30	10.70
6-4-63	9.82	7.00
7-4-63	6.40	6.20
8-4-63	6.40	6.20
9-4-63	3.55	9.37
10-4-63	9.15	10.60
11-4-63	7.70	8.90
12-4-63	-	7.87
13-4-63	-	7.87
14-4-63	-	7.87
15-4-63	-	7.87
16-4-63	9.43	11.35
17-4-63	7.35	7.80
18-4-63	12.30	13.20
19-4-63	12.20	12.30
20-4-63	13.20	13.20
21-4-63	11.25	13.40
22-4-63	11.25	13.40
23-4-63	10.80	14.70
24-4-63	7.95	7.55
25-4-63	8.80	9.70
26-4-63	8.45	9.57
27-4-63	7.98	8.25
28-4-63	7.98	8.25
29-4-63	7.98	8.25
30-4-63	6.55	8.31
Average	9.55	9.75

* Esparto grass filter paper.

CR:mi
22-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

May 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed	
	I*	II
1-5-63	6.38	6.02
2-5-63	1.25	1.57
3-5-63	7.75	8.37
4-5-63	4.37	4.97
5-5-63	4.50	3.98
6-5-63	4.50	3.98
7-5-63	3.98	4.35
8-5-63	4.13	4.18
9-5-63	5.30	4.82
10-5-63	7.00	7.37
11-5-63	5.14	4.65
12-5-63	5.14	4.65
13-5-63	5.14	4.65
14-5-63	2.88	2.57
15-5-63	6.50	6.45
16-5-63	10.90	10.50
17-5-63	12.30	14.90
18-5-63	13.60	14.10
19-5-63	9.45	8.33
20-5-63	9.45	8.33
21-5-63	13.00	13.15
22-5-63	10.60	8.98
23-5-63	9.05	7.45
24-5-63	7.45	5.47
25-5-63	3.74	3.06
26-5-63	3.74	3.06
27-5-63	3.74	3.06
28-5-63	4.90	5.14
29-5-63	-	2.82
30-5-63	3.78	5.14
31-5-63	-	-
Average	6.55	6.20

* Esparto grass filter paper

CR:mi
22-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

June 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed I*	Electronics shed II
1-6-63	3.78	3.44
2-6-63	3.14	2.44
3-6-63	3.14	2.44
4-6-63	3.14	2.44
5-6-63	2.60	2.72
6-6-63	-	-
7-6-63	3.25	3.26
8-6-63	1.82	1.73
9-6-63	1.82	1.73
10-6-63	1.82	1.73
11-6-63	1.49	1.66
12-6-63	-	2.18
13-6-63	2.30	2.44
14-6-63	1.84	1.81
15-6-63	1.81	2.32
16-6-63	2.04	2.00
17-6-63	2.04	2.00
18-6-63	2.31	2.22
19-6-63	2.94	2.72
20-6-63	3.72	3.01
21-6-63	3.30	2.74
22-6-63	2.85	2.42
23-6-63	2.85	2.42
24-6-63	2.85	2.42
25-6-63	-	1.99
26-6-63	3.17	2.47
27-6-63	3.74	3.04
28-6-63	4.18	3.29
29-6-63	3.60	3.04
30-6-63	2.09	1.80
Average	2.73	2.41

* Esparto grass filter paper

CR:mi
22-2-66

Table-2(b)(contd)

Daily airborne fallout beta activity at different sites in Bombay

July 1963

(Micro-microcuries per cubic meter of air)

Date	Electronics shed I*	Electronics shed II
1-7-63	2.09	1.80
2-7-63	0.25	0.46
3-7-63	1.42	1.31
4-7-63	3.54	2.65
5-7-63	2.83	2.73
6-7-63	1.65	1.54
7-7-63	2.26	1.98
8-7-63	2.26	1.98
9-7-63	1.83	1.91
10-7-63	1.40	1.40
11-7-63	2.39	2.68
12-7-63	1.30	1.31
13-7-63	0.92	1.04
14-7-63	0.92	1.04
15-7-63	0.92	1.04
16-7-63	-	1.12
17-7-63	-	1.05
18-7-63	-	1.05
19-7-63	-	1.32
20-7-63	-	0.66
21-7-63	-	0.79
22-7-63	-	1.08
23-7-63	-	0.91
24-7-63	-	0.91
25-7-63	-	1.00
26-7-63	-	1.42
27-7-63	-	-
28-7-63	-	1.77
29-7-63	-	1.77
30-7-63	-	-
31-7-63	-	0.82
Average	1.73	1.40

* Esparto grass filter paper

CR:mi
22-2-66

Table-3(a)

Monthly average airborne fallout beta activity

1956
(Micro-microcuries per cubic meter of air)

Month	Station				
	Bangalore	Bombay	Calcutta	Delhi	Nagpur
January					
February		1.0			
March		0.7			
April		0.7			
May		0.5			
June		0.2			
July		0.4	0.4		0.4
August	0.3	0.6	0.3	0.6	0.5
September	0.3	1.0	0.2	1.1	0.4
October	0.2	1.5	0.2	0.6	0.6
November	0.1	0.7	0.3	0.8	0.4
December	0.2	0.6	0.4	0.7	0.3
Avarage	0.22	0.71	0.29	0.76	0.44

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1957
(Micro microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	*Ooty	Srinagar
January	0.2	1.4	0.4	1.0		0.6		
February	0.4	2.6	1.6	2.0		2.1		
March	0.4	3.0	1.4	1.8		1.1		
April	0.5	5.1	1.2	4.8		2.7		
May	0.5	3.5	0.7	2.3		1.3		
June	0.2	1.6	0.5	1.4		0.7		
July	0.8	1.1	1.0	2.7		2.1	2.3	
August	0.8	1.4	0.8	2.1		1.4	1.3	
September	1.4	1.2	0.9	1.8		1.5	1.3	
October	1.0	1.5	1.7	2.5		-	0.8	1.5
November	1.5	1.8	2.0	1.8		-	0.8	1.1
December	1.9	2.0	2.0	2.2		2.0	0.7	1.8
Avarage	0.80	2.18	1.18	2.21		1.56	1.20	1.45

*Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1958

(Micro-microcuries per cubic meter of air)

Month	Station						
	Bangalore	Bombay	Calcutta	Delhi	Nagpur	Ootacamund	Srinagar
January	2.4	2.3	1.8	2.9	2.3	0.9	1.9
February	1.9	2.8	1.9	2.8	2.4	1.5	1.7
March	1.4	1.9	1.8	2.1	1.7	1.0	1.7
April	1.4	3.0	1.4	3.4	2.0	1.2	2.0
May	1.4	2.8	-	3.5	2.7	1.7	2.3
June	0.9	1.2	-	1.9	0.9	0.9	2.2
July	1.1	1.1	0.5	0.9	1.2	1.2	3.2
August	1.2	1.1	0.8	1.3	0.9	1.1	2.9
September	1.2	0.5	0.8	0.8	0.9	1.3	1.3
October	1.6	2.4	1.6	5.3	1.9	1.0	1.8
November	2.1	3.0	3.1	4.8	3.5	1.2	3.4
December	3.8	4.6	3.8	4.4	4.3	2.2	3.0
Avarage	1.70	2.22	1.75	2.85	2.06	1.28	2.28

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1959

(Micro- microcuries per cubic meter of air)

Month	Station						
	Bangalore	Bombay	Calcutta	Delhi	Nagpur	Ootacamund	Srinagar
January	4.6	5.9	5.2	8.3	4.0	1.8	6.2
February	4.4	8.4	7.8	8.8	6.7	4.1	-
March	4.6	5.3	6.1	8.3	5.0	4.2	5.9
April	2.5	3.7	2.5	4.9	3.6	2.4	4.6
May	1.0	1.9	1.2	2.6	1.5	0.8	2.1
June	0.5	0.8	0.5	1.2	0.8	0.3	1.8
July	0.4	0.3	0.3	0.3	0.4	0.4	0.4
August	0.3	0.2	0.3	0.3	0.2	0.4	0.3
September	0.5	0.2	0.3	0.3	0.3	0.3	0.4
October	0.4	0.2	0.3	0.4	0.3	0.2	-
November	0.3	0.2	0.3	0.3	0.3	0.2	0.1
December	0.4	0.2	0.3	0.4	0.4	0.2	0.4
Avarage	1.65	2.28	2.08	3.01	1.97	1.28	2.24

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1960

(Micro-microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	*Ooty	Srinagar
January	0.5	0.3	0.5	-	-	0.4	-	0.4
February	0.8	1.2	1.0	0.8	-	1.7	0.6	0.6
March	2.0	2.1	1.6	1.6	0.9	2.3	1.8	0.8
April	0.4	0.6	0.4	0.4	0.2	0.5	0.3	0.4
May	0.2	0.2	0.2	0.2	-	0.2	0.2	0.2
June	0.2	0.1	0.2	0.2	-	0.2	0.2	0.2
July	0.2	0.1	0.2	0.2	-	-	0.2	0.2
August	0.2	0.1	0.2	0.2	-	0.2	0.2	0.2
September	0.2	0.1	0.2	0.2	-	0.2	0.2	0.2
October	0.2	0.1	0.2	0.2	-	0.2	0.2	0.2
November	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2
December	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2
Avarage	0.45	0.43	0.41	0.39	-	0.56	0.35	0.31

* Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1961

(Micro-microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	*Ooty	Srinagar
January	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2
February	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2
March	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
April	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
May	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2
June	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
July	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
August	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
September	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.9
October	0.8	2.4	1.0	1.9	0.7	2.0	0.5	1.7
November	4.9	5.1	7.6	8.3	8.5	5.5	2.5	6.4
December	8.6	9.5	9.1	8.4	9.3	8.2	4.0	8.3
Average	1.30	1.50	1.57	1.65	1.64	1.42	0.68	1.57

* Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1962

(Micro-microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	* Ooty	Srinagar
January	9.5	9.7	11	11	13	10	4.8	-
February	6.4	7.2	7.7	8.9	7.3	7.7	3.9	-
March	4.6	5.2	5.4	6.2	6.1	-	3.7	7.2
April	2.2	4.5	3.0	6.4	4.5	4.1	2.2	4.4
May	1.7	2.4	1.7	6.3	3.8	3.5	1.8	5.0
June	2.3	2.7	2.0	3.8	1.1	3.4	2.3	4.0
July	0.9	0.9	0.6	1.5	0.2	1.1	1.0	1.7
August	0.8	0.7	0.6	1.1	0.2	1.0	0.8	1.8
September	0.9	1.0	0.6	1.6	0.9	1.1	0.9	1.5
October	1.1	4.5	2.6	12	2.3	9.7	0.9	6.9
November	3.2	3.3	3.9	5.7	4.7	3.4	1.4	5.4
December	5.6	5.4	6.3	7.3	8.6	6.7	2.1	8.0
Average	3.26	3.94	3.78	6.00	4.35	4.30	2.14	3.82

* Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1963

(Micro-microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	* Ooty	Srinagar
January	10	9.4	11	12	14	12	4.6	17
February	7.4	7.9	8.4	9.9	11	7.9	5.2	8.1
March	1.5	11.0	10	13	14	11	5.6	9.9
April	5.3	9.8	5.7	8.8	8.2	5.0	5.7	5.9
May	2.2	6.2	2.8	7.3	4.7	6.0	3.6	4.5
June	1.3	2.4	2.6	3.5	2.2	3.8	1.9	6.9
July	1.1	1.4	1.2	1.7	0.3	2.4	1.4	4.7
August	0.8	0.9	0.7	0.2	0.1	0.8	1.2	1.4
September	0.8	1.1	0.7	0.3	0.4	0.9	0.8	1.2
October	0.8	1.2	0.5	0.5	0.8	0.6	0.7	1.0
November	0.7	0.7	0.8	0.7	1.1	0.6	0.3	0.9
December	0.7	1.0	0.9	0.7	1.2	0.9	0.4	0.8
Average	2.75	4.48	3.74	4.93	4.79	4.31	2.61	5.15

* Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1964

(Micro microcuries per cubic meter of air)

Month	Station							
	Bangalore	Bombay	Calcutta	Delhi	Gangtok	Nagpur	*Ooty	Srinagar
January	1.0	1.4	-	1.5	1.7	1.3	0.7	1.4
February	0.6	0.8	1.0	1.4	1.9	1.0	0.5	1.2
March	0.7	0.6	1.1	1.4	1.6	1.1	0.8	1.1
April	0.8	0.9	0.5	1.2	1.3	1.1	0.8	0.9
May	0.9	0.6	-	1.3	1.1	1.1	0.9	1.2
June	0.4	0.3	-	0.7	0.4	0.5	0.4	0.9
July	0.2	0.2	-	0.1	0.1	0.2	0.3	0.7
August	0.1	0.1	-	0.1	0.1	0.1	0.2	0.3
September	0.2	-	-	0.3	0.1	0.2	0.2	0.5
October	0.2	0.2	0.1	0.3	0.1	0.2	0.1	0.2
November	0.2	0.1	0.1	0.3	0.1	0.2	0.1	0.2
December	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1
Average	0.47	0.46	0.46	0.76	0.78	0.63	0.44	0.73

* Ootacamund

Table-3(a)(contd)

Monthly average airborne fallout beta activity

1965

(Micro-microcuries per cubic meter of air)

Month	Station									
	Banga-lore	Bombay	Calc-utta	Delhi	Gang-tok	Gul-marg	Nag-pur	Naini Tal*	Ooty	Sri ga
January	0.2	0.1	0.1	0.1	0.2	-	0.2	0.2	0.1	0.
February	0.2	0.2	0.1	0.2	0.3	-	0.2	0.3	0.2	0.
March	0.2	0.2	0.2	0.2	0.4	-	0.2	0.3	0.2	0.
April	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.
May	0.2	0.2	0.1	0.2	0.1	0.4	0.2	0.3	0.2	0.
June	0.2	0.1	0.1	0.4	0.1	0.8	0.3	0.7	0.2	0.

* Ootacamund

Table 3(b)

Monthly average airborne fallout beta activity at different sites in Bombay

1961

(Micro microcuries per cubic meter of air)

Month	Station						
	Electronics shed						
	Ia	Ib	IIa	IIb	Apsara	C.I.R.	Mahul
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-
October	2.8	2.5	2.1	-	2.2	2.5	1.9
November	4.9	5.0	5.1	4.4	4.2	4.6	3.7
December	8.0	9.1	9.1	9.8	8.7	-	7.0

Collections II(a) and II(b) are from blowers sampling about 90 litres of air per minute while I(a) and I(b) are from blowers of approximately half the capacity. However, in December 1961, collections I(a) and I(b) are from blowers of 150 litres per minute capacity.

Table-3(b)(contd)

Monthly average airborne fallout beta activity at different sites in Bombay

1962
(Micro microcuries per cubic meter of air)

Month	Station							
	+Electronics Shed							O.Y
	Ia	Ib	IIa	IIb	Apsara	Mahul	C.I.R.	Club
January	10*	11*	13*	10	12	11	-	14
February	6.8*	6.6*	9.0*	7.2	7.7	6.5	7.4	9.8
March	5.2*	5.3*	7.7*	5.2	6.5	5.7	5.8	8.4
April	4.6*	4.8*	6.2*	4.9	5.5	5.1	6.5	-
May	2.4	3.0*	4.0*	3.8*	2.6	2.6	2.8	-
June	3.1*	3.2*	3.3*	2.6	2.4	1.7	2.5	-
July	1.0*	1.4*	1.1*	0.9	0.8	0.7	0.9	-
August	1.3*	0.9*	1.1*	0.7	0.3	0.5	0.9	0.6
September	-	-	-	1.0	0.3	0.7	0.6	-
October	-	-	-	4.5	-	-	3.7	-
November	3.3*	-	-	3.3	-	-	2.7	-
December	5.1*	-	-	5.4	-	-	1.1	-

* Esparto grass filter paper.

\+ Collections Ia and Ib are from blowers sampling about 150 litres of air per minute while IIa and IIb are from blowers of approximately half the capacity.

Table-3(b)(contd)

Monthly average airborne fallout beta activity at different sites in Bombay

1963
(Micro microcuries per cubic meter of air)

Month	Station		
	Electronics Shed I	Electronics Shed II	C.I.R.
January	10*	9.4	6.5
February	8.5*	7.9	7.9+
March	13. *	11.	17 ++
April	9.6*	9.8	-
May	6.6*	6.2	-
June	2.7*	2.4	-
July	1.7*†	1.4	-
August	-	0.9	-
September	-	1.1	-
October	-	1.2	-
November	-	0.7	-
December	-	1.0	-

* Esparto grass filter paper

† Data only for 15 days.

\+ Data for 12 days only

++ Data for 15 days only

Collection I is from blower of 150 litres of air per minute capacity while II is from blower of approximately half the capacity.

Table-4

Surface fallout activity and rainfall at Bombay

1963

January			February		
Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms	Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms
1) 2)	520	Nil	1	220	Nil
			2	180	"
3) 4)	840	"	3) 4)	520	"
5) 6) 7)	570	"	5) 6)	530	"
8) 9)	500	"	7) 8)	320	"
10	430	"	9) 10)	480	"
11	1190	"	11)		
12	1550	"	12) 13)	330	"
13) 14)	350	"	14) 15)	470	"
15	590	"			
16) 17) 18)	980	"	16) 17) 18)	290	"
			19	680	"
19) 20) 21)	900		20	290	"
22) 23)	570	"	21) 22) 23) 24) 25)	1250	"
24) 25)	410	"			
26) 27) 28)	750	"	26) 27) 28)	880	"
29	440	"			
30	400	"			
31	230	"			
Average	360	0	Average	230	0

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1963

March			April		
Dates of collection	Surface fallout activity uc/km^2	Rain fall mms	Dates of collection	Surface fallout activity uc/km^2	Rain fall mms
1) 2)	450	Nil	1	470*	Nil
3) 4)	410	"	2) 3) 4) 5) 6)	800	"
5	510	"			
6) 7)	910	"	7) 8) 9) 10) 11)	990	"
8) 9) 10) 11)	720	"			
12) 13) 14) 15)	750	"	12) 13) 14) 15)	1080	"
16) 17) 18) 19)	1110	"	16) 17) 18) 19) 20)	630	"
				590	"
20) 21) 22) 23) 24)	720	"	21) 22) 23) 24)	1140	"
25) 26) 27) 28)	3290	"	25	430	"
			26	530	"
29) 30) 31)	1410*	"	27) 28) 29)	580	"
			30	190	"
Average	330	0	Average	250	0

* A single collection was made from March 28th to April 1st and the deposition value for 29, 30 and 31st of March is taken as $\frac{3}{4}$ of the total and that for April 1st, $\frac{1}{4}$th of total.

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1963

May			June		
Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms	Date of collection	Surface fallout activity $\mu c/Km^2$	Rain fall mms
1	290	Nil	1	1660	0.5
2	340	"	2)		
			3)	7770	11.9
3	260	"	4)		
4	280	"	5	1700	2.8
5)					
6)	300	"	6	300	Nil
7)			7	1750	9.1
8)	310	"	8)		
9)			9)	7980	5.3
10	220	"	10)		
11)			11	14900	50.3
12)	410	"	12	15400	18.8
13)			13	10600	23.6
14)			14	8360	17.8
15	360	"	15	500	0.8
16	190	"	16	62600	109.1
17	70	"	17	9680	9.4
18	210	"	18	2200	2.5
19)			19	5500	6.1
20)	280	"	20	540	Nil
21)			21	980	"
22)	810	"	22)		
23)			23)	21600	28.4
24)			24)		
25)	2520	0.3	25	520	Nil
26)			26	-*	-
27)			27	29400	42.9
28	380	Nil	28	11400	17.5
29	480	"	29	2670	3.8
30	220	"	30	16200	39.5**
31	290	"			
Average	270	0.01	Average	7807	13.38

* Sample lost.

** A single collection was made from 29th June to Ist July. The deposition on 30th June is taken as 1/2 of the total.

CR:mi
28.2.66

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1963

July			August		
Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms	Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms
1	16200	39.5*	1	9200	23.6
2	1090	8.9	2	1950	3.1
3	3020	28.4	3)		
			4)	35500	101.5
4	13000	48.2	5)		
5	47900	125.0	6	15020	76.5
6	18820	31.0	7	17100	59.7
7)	127500	213.0	8	10600	19.1
8)			9	6770	28.2
9	15500	14.0	10)		
10	400	Nil	11)	147800	257.0
11	5500	"	12)		
12	4520	"	13	51300	69.8
			14	18680	44.5
13)					
14)	3770	"	15)	28300	39.6
15)			16)		
16	15300	32.5	17	13000	5.1
17)			18)	4750	15.2
18)	13020	66.0	19)		
19)			20	6670	13.7
20)					
21)	10880	5.0	21	21850	8.4
22)					
23)	3600	16.0	22	2910	35.3
24)			23)		
25)	11140	23.9	24)	23200	152.2
26)			25)		
27)			26)		
28)	30000	102.9	27)	28100	71.0
29)			28)		
			29	2580	5.1
30	20550	36.1	30	1360	Nil
31	39100	96.0	31	3850	15.5**
Average	12910	28.6	Average	14525	33.7

* Collection period was from 29th June to Ist July. The deposition on Ist July is taken as 1/2 of the total.

** A single collection was made from 30th August to 3rd September. The deposition on 31st August is taken as 1/3 of the total.

CR:mi
28.2.66

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1963

September			October		
Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms	Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms
1) 2)	7690	31.0*	1	4460	9.2
3	13370	24.9	2) 3) 4)	1270	Nil
4	3100	4.8			
5	1080	Nil	5) 6) 7)	780	"
6	3390	Nil			
7) 8) 9)	18880	106.8	8) 9)	950	"
10) 11)	2930	4.3	10) 11)	750	"
12) 13)	7780	29.2	12) 13) 14)	2140	15.0
			15	660	Nil
14) 15) 16)	6420	2.5	16) 17) 18)		
17	1050	11.4	19) 20)	5020	23.6
18	2470	9.6	21)		
19) 20) 21)	420	Nil	22) 23) 24)	1210	Nil
22) 23) 24)	840	Nil	25) 26)	950	"
25) 26)	1300	"	27) 28)	930	"
27	560	"	29) 30)	450	"
28) 29) 30)	2950	13.5	31	320	"
Average	2483	7.94	Average	641	1.54

*The collection period was from 30th August to 2nd September and the deposition on 1st and 2nd September is taken as 2/3rd of the total.

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1963

November			December		
Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms	Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms
1) 2)	300	Nil	1) 2)	270	Nil
3) 4) 5)	820	"	3) 4) 5)	320	"
6) 7)	260	"	6) 7)	200	"
8	390	"	8) 9)	340	"
9) 10) 11)	420	"	10) 11) 12)	270	"
12) 13)	510	"	13) 14)	440	"
14) 15) 16)	400	"	15) 16) 17)	300	"
17) 18)	1420	"	18) 19)	1440	"
19) 20) 21)	8740	Trace	20) 21)	1430	"
22	660	4.0	22) 23)	990	"
23) 24) 25) 26)	440	Nil	24) 25) 26) 27)	880	"
27) 28) 29) 30)	800	"	28) 29) 30) 31	760	"
Average	505	0.13	Average	246	Nil

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Table-4(contd)

Surface fallout activity and rainfall at Bombay

1964

June			July		
Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms	Dates of collection	Surface fallout activity $\mu c/Km^2$	Rain fall mms
1	1460	Trace	1	23400	24.0
2)			2	15000	115.0
3)					
4)	480	Nil	3)	4980	13.5
5)			4)		
6)					
			5)	14320	77.5
			6)		
7)					
8)	4400	Trace	7	5690	24.0
9)					
10	17020	25.0	8	2780	14.0
11	170	2.0	9	2400	17.0
12	1400	2.5	10	5110	1.6
13)			11)		
14)	19600	108.0	12)	8230	51.0
15)			13)		
16	2780	0.3	14)	4100	7.0
			15)		
17	4110	Nil			
			16)	3100	20.0
18	1570	Nil	17)		
19	590	Nil	18)		
			19)	4880	7.0
20	660	Nil	20)		
21)	920	5.0	21	2680	42.5
22)			22	14000	30.0
23	2100	93.0	23	2750	31.0
24	880	14.0	24	5800	53.0
25	1030	22.0	25)		
26	3420	75.0	26)	1870	16.5
27)			27)		
28)	21800	213.0	28	1390	Nil
29)			29)	3200	Nil
30	6360	84.0	30)		
			31	75*	3.5*
Average	3025	21.48	Average	4050	17.68

* A single collection was made for 31st July and Ist August 1964. The value given is half the total.

CR:mi
28.2.66

Table-4(contd)

Surface fallout activity and rainfall at Bombay

1964

August			September		
Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms	Dates of collection	Surface fallout activity $\mu c/Km^2$	Rainfall mms
1	75*	3.5*	1	630**	7.2
2)	5420	56.5	2	460	2.0
3)			3)		
4	5450	36.0	4)	1020	10.5
			5)		
5	3240	47.4		980	Nil
6	1340	12.0	6)		
7	290	12.5	7)	3440	Nil
			8)		
8)			9)		
9)	5840	58.5	10)	2390	Nil
10)					
11	2960	78.0	11)		
12	1520	87.0	12)	1810	40.5
			13)		
			14)		
13	3450	33.5	15)		
			16)	670	10.5
14	1420	10.5	17)		
15)			18)		
16)	2450	21.0	19)	3880	113.0
17)			20)		
18	750	8.0	21)	1630	51.0
19	1200	11.5	22	970	31.0
20	310	3.0	23	220	1.5
			24	4430	31.0
21	170	Nil	25	330	12.5
22)					
23)	640	9.0	26)		
24)			27)	480	1.0
			28)		
25	570	8.0			
26	250	5.0			
27	440	9.0	29)		
28	700	17.0	)	680	Trace
29	270	2.0	30)		
30)					
31)	1260	14.4**			
Average	1290	17.53		801	10.39

** A single collection was made for the period 30th August to Ist September. The value for 30th and 31st August is taken as 2/3rds the total and for Ist September 1/3rd the total.

* A single collection was made for 31st July and August Ist. The value given is half the total.

CR:mi
28.2.66

Table-4(contd)
Surface fallout activity and rainfall at Bombay

1964

October			November		
Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms	Dates of collection	Surface fallout activity $\mu c/km^2$	Rain fall mms
1	3430	73.5	1)		
			2)	410	Nil
2)			3)		
3)					
4)			4)		
5)	170	Nil	5)		
6)			6)	80	"
7)			7)		
8)	170	Nil	8)	370	"
9)			9)		
10)			10)		
11)			11)	230	"
12)	130	Nil			
13)			12	Nil	"
14)					
15)			13	210	"
16)					
			14)		
17	190	Nil	15)	150	"
18	Nil	"	16)		
19	80	"	17)		
20	860	"	18)		
21	60	"	19)		
			20)		
22	110	"	21)		
23)			22)	830	"
24)	Nil	"	23)		
25)			24)		
26	150	"	25)		
27	280	"	26)		
28	480	"	27)		
29	350	"	28)		
30	120	"	29)		
			30)		
31	960	"			
Average	243	2.37	Average	76	-

Table-4(contd)
Surface fallout activity and rainfall at Bombay

1965

June		
Dates of collection	Surface fallout activity mc/Km^2	Rainfall mms
1	510	Nil
2	300	Nil
3) 4)	870	5.5
5	550	1.2
6) 7)	200	Trace
8	8400	24.1
9	310	1.5
10	580	1.8
11	730	4.0
12) 13) 14)	13300	90.0
15	4140	51.5
16	4020	160.4
17	1380	Nil
18) 19)	3640	19.0
20) 21)	3080	8.6
22	1230	16.2
23	1300	11.5
24) 25)	6100	61.9
26) 27) 28)	1950	43.9
29	380	11.8
30	330	90.5
Average	1780	20.1

CR:mi
14.2.66

Table-5

Monthly surface fallout and rainfall

1963

Month	Bangalore			Bombay		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms
January)	11	6- 5-63	16.6	6.6	8- 2-63	Nil
February)			Nil	6.6	14- 3-63	Nil
March	19	6- 6-63	7.6	6.7	10- 4-63	Nil
April	156	28- 6-63	106.5	6.8	6- 5-63	Nil
May	79	20- 9-63	102.2	13	7- 6-63	0.3
June	32	23-12-63	93.7	431	22- 7-63	400.1
July	25	24-12-63	23.3	457	11- 9-63	925.9
August	64	24-12-63	203.8	490	23-10-63	1044.1
September	24	30- 3-64	180.6	142	23-10-63	238.0
October	3.9	15- 7-64	260.7	40	8-11-63	47.8
November	16	1- 4-64	31.3	8.0	21-12-63	4.0
December	9.5	30- 5-64	14.8	4.1	10- 1-64	Nil
Average	36.6		86.7	134.3		221.7

Table-5(contd)

Monthly surface fallout and rainfall

1963

Month	Calcutta			Delhi		
	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	5.3	10- 5-63	t	17	4- 3-63	24.9
February	16	2- 5-63	t	33	26- 4-63	12.1
March	53	14- 6-63	22.9	56	20- 5-63	3.2
April	305	28- 6-63	93.2	67	3- 7-63	5.4
May	196	26- 6-63	118.4	67	21- 9-63	14.4
June	90	28-11-63	375.4	18	19-12-63	117.6
July	115	21-12-63	299.8	33	28-11-63	45.8
August	15	4- 2-63	213.7	14	28-11-63	298.1
September	13	2- 3-64	438.0	6.9	13- 3-64	277.7
October	13	2- 3-64	100.8	11	29- 1-64	Nil
November	8.6	30- 3-64	15.5	21	4- 2-64	1.2
December	1.3	1- 6-64	Nil	11	18- 6-64	27.4
Average	69.3		139.8	29.6		69.0

Table-5(contd)

Monthly surface fallout and rainfall

1963

Month	Gangtok			Nagpur		
	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	8.5	10- 5-63	15.0	4.0	25- 4-63	2.0
February	168	16- 5-63	41.5	+		17.0
March	371	30- 5-63	130.5	)151	22- 7-63	8.9
April	555	24- 9-63	423.3	)		24.2
May	427	17- 2-64	442.0	177	20- 9-63	10.0
June)	278	17- 7-64	691.7	219	28-10-63	199.8
July)			709.4	48	13- 6-64	202.6
August	18.4	15- 7-64	710.1	13	24- 6-64	321.1
September)	6.1	15- 7-64	439.8	29	18- 6-64	62.4
October)			156.4	9.3	13- 6-64	84.6
November	5.6	15- 7-64	67.7	4.8	13- 6-64	t
December +			31.5	7.9	1- 6-64	Nil
Average	167.1		321.6	60.3		76.3

+ Sample not available

Table-5(contd)

Monthly surface fallout and rainfall

1963

Month	Ootacamund			Srinagar		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	5.0	15- 5-63	52.0	) 77	20- 4-63	49.1
February	6.0	10- 5-63	Nil	)		31.1
March	2.2	29-8 -63	32.4	1044	30- 5-63	228.9
April	71	20-10-63	97.4	541	6- 6-63	169.9
May	61	13-11-63	117.8	43	7- 9-63	58.6
June	1.4		68.6	585	9- 9-63	20.8
July)			152.6	139	26- 9-63	28.5
August)			108.8	68	26- 9-63	31.3
September)	42	2- 9-64	127.2	16	4-11-63	13.7
October)**			250.2	66	24-12-63	9.6
November	2.3	13- 9-64	107.6	54	30- 1-64	60.7
December+			76.6	58	4- 6-64	79.9
Average	17.4		99.2	224.3		65.2

** Beta activity estimated from gamma measurements

+ Sample not available

CR:mi
16.2.66

Table-5(contd)

Monthly surface fallout and rainfall

1964

Month	Bangalore			Bombay		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	4.4	30- 5-64	Nil	5.1	17- 2-64	Nil
February	3.2	10- 8-64	Nil	8.4	30- 3-64	Nil
March	3.6	7- 8-64	Nil	4.9	3- 6-64	Nil
April	14	10- 8-64	10.0	2.5	13- 6-64	Nil
May	44	1- 9-64	80.4	10	13- 6-64	t
June	20	4- 9-64	82.6	90	28- 7-64	644.3
July	13	20- 2-65	285.6	72	27- 8-64	548.1
August	13	20- 2-65	105.7	28	1-10-64	532.9
September	4.5	20- 2-65	287.7	17	5-11-64	326.0
October	0.6**	16- 7-65	141.5	3.2	7-12-64	73.5
November	1.8**	29-10-65	189.8	0.9	2- 2-65	Nil
December+			8.3	2.1	20- 2-65	Nil
Average	11.1		99.3	20.3		177.1

**Beta activity estimated from gamma measurements.

+Pooled sample, December 1964 to April 1965.

Table-5(contd)

Monthly surface fallout and rainfall

1964

Month	Calcutta			Delhi		
	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	<		Nil	7.8	11- 9-64	0.2
February	<		18.7	7.5	10- 9-64	1.5
March	43	7- 8-64	11.0	19	11- 9-64	1 .0
April	<		114.3	<		4.8
May	96	10- 8-64	96.7	29	1- 9-64	16.0
June	33	4- 9-64	132.6	9.5	11- 9-64	27.9
July	3.1	2- 2-65	551.1	3.1	20-11-64	538.2
August	3.8	2- 2-65	216.5	6.2	20-11-64	446.3
September +			164.4	<		181.5
October	2.6	29- 3-65	131.7	<		Nil
November	1.0	30- 3-65	48.0	<		Nil
December +			Nil	+		15.7
Average	18.3		123.7	7.5		102.8

+ Sample not available

Table-5(contd)

Monthly surface fallout and rainfall

1964

Month	Gangtok			Nagpur		
	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January)			5.8	4.7	24- 7-64	Nil
February)	55	2- 2-65	17.8	19	24- 7-64	1.5
March)			96.7	8.3	24- 7-64	9.8
April)	126	9- 4-65	333.4	1.3	24- 7-64	Nil
May)			378.3	2.2	24- 7-64	4.8
June	27	9- 4-65	683.4	57	24- 9-64	249.7
July	42	28- 5-65	825.5	19	3- 2-65	145.9
August)	6.3	28- 5-65	371.5	1.7**	23- 8-65	418.8
September)			374.3	2.5**	24- 8-65	201.4
October	1.7	29- 3-65	85.7	1.7	29- 3-65	14.3
November	5.0	30- 3-65	37.2	4.1	20- 2-65	5.1
December+			17.1	1.3	30- 3-65	Nil
Average	23.9		268.9	10.2		87.6

**Beta activity estimated from gamma measurements

+ Pooled sample, December 1964 to March 1965.

Table-5(contd)

Monthly surface fallout and rainfall

1964

Month	Ootacamund			Srinagar		
	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms
January	<		Nil	46	6- 7-64	85.3
February	<		0.4	22	7- 7-64	32.9
March	<		5.0	93	10- 7-64	54.0
April	0.4	22- 4-65	12.6	202	10- 7-64	109.9
May	33	22- 4-65	160.0	165	27- 8-64	30.3
June	8.7	22- 4-65	68.4	79	4- 9-64	77.0
July	6.6	22- 4-65	309.6	<		89.7
August	2.7	16- 7-65	588.8	7.7	20-11-64	38.0
September	2.2	16- 7-65	116.4	<		18.4
October	2.3	19-10-65	173.6	+		Nil
November	0.1	21-10-65	220.6	9.3	29- 3-64	3.8
December+			183.0	9.1	29- 3-64	152.9
Average	5.1		153.2	57.6		57.7

+ Sample not available

Table-5(contd)

Monthly surface fallout and rainfall

1965

Month	BANGALORE			BOMBAY		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.
January	*		Nil	1.9	23-2-65	Nil
February			Nil	1.2	9-4-65	Nil
March	0.4	10-11-65	Nil	1.3	25-5-65	Nil
April			31.2	1.4	27-5-65	Nil
May	2.3	26-10-65	27.3	1.4	11-6-65	Nil
June	0.5	22-10-65	56.4	18	14-7-65	603.4

* Pooled sample for December 1964 to April 1965

CR:mi
6-1-'66

Table-5(contd)

Monthly surface fallout and rainfall

1965

Month	CALCUTTA			DELHI		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.	Surface fallout activity mc/Km^2	Date of measurement	Rainfa mms.
January	1.4	30-10-65	0.6	0.9*	15-7-65	8.8
February	3.1	27-8-'65	28.2	2.4**	12-7-65	8.7
March	2.1	31-8-65	22.4	2.5	14-7-65	1.6
April			45.7	***		13.9
May	0.4	1-9-65	78.6	5.5	14-7-65	5.8
June	5.0	26-10-65	268.3			3.0

* The collection period was from 1-1-65 to 15-2-65

** The collection period was from 15-2-65 to 1-3-65

*** The collection period was from 1-4-65 to 15-6-65

CR:mi
6-1-'66

Table-5(contd)

Monthly surface fallout and rainfall

1965

Month	GANGTOK			NAGPUR		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.
January	*		8.4	3.7	24.8.65	19.9
February	24	1.11.65	34.0	4.3	25.8.65	28.5
March			91.6	7.6	25.8.65	2.7
April	**		217.8	12	13.8.65	15.8
May	22	15.12.65	476.5	1.1	27.10.65	1.4
June			692.2	1.4	22.10.65	300.1

* Pooled sample for December 1964 to March 1965.

** Pooled sample for April 1965 to June 1965.

CR;mi
6-1-'66

Table-5(contd)

Monthly surface fallout and rainfall

1965

Month	OOTACAMUND			SRINAGAR		
	Surface fallout activity mc/Km^2	Date of measurement	Rainfall mms.	Surface fallout activity mc/Km^2	Date of measure-ment	Rainfall mms.
January	*		Nil	5.4	29-5-65	89.9
February			Nil	10	15-7-65	101.1
March			9.6	13	29-5-65	63.9
April			88.0	4.2	3-7-65	113.5
May	2.1	18-12-65	94.8	15	14-7-65	148.9
June	0.7	23-12-65	24.2	5.1	22-10-65	20.5

* Samples not available

CR:mi
6-1-'66

Table 6

Concentration of Cs-137 in ground-level air at Bombay

(Micro-microcuries per 1000 cubic meters of air)

Month	1956	1957	1958	1959	1960
January	-	11	18	13	4.7
February	-	29	16	24	6.6
March	-	18	18	35	4.9
April	-	+	16	37	6.9
May	-	21	22	29	3.9
June	-	11	12	15	3.2
July	-	+	3.8	3.5	2.0
August	-	5.8	3.7	6.5	-
September	8.0	13	5.8	2.0	-
October	10	3.5	5.8	2.4	-
November	6.7	+	6.1	4.5	-
December	6.7	12	11	3.4	-
Average	8.0	14	12	15	4.6

+ Sample not available.

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Bangalore

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
December	12	1220	-
1962			
January	35	1630	-
February	36	800	-
March	29	800	-
April	13	280	-
May	16	180	-
June	22	220	-
July	13	110	-
August	7.5	90	-
September	13	230	-
October	1.4	140	-
November	9.8	650	120
December	19	1060	510
Average (1962)	18	520	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Bombay

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1961							
November	190	7.9	10	9.2	680	9.2	–
December	748	27	200	28	1350	10	–
1962							
January	1550	68	390	55	2010	14	–
February	1240	47	296	48	950	18	–
March	1280	49	289	53	950	20	–
April	1350	64	350	62	890	26	–
May	1050	25	310	54	530	20	–
June	850	46	186	42	380	18	–
July	282	16	75	15	140	15	–
August	202	4.8	43	9.9	150	6.1	–
September	282	17	33	13	240	12	–
October	420	30	47	26	740	35	390
November	413	16	81	16	640	23	190
December	605	32	135	20	1050	29	480
Average (1962)	794	34	186	34	722	20	–

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Calcutta

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
November	6.7	913	-
December	24	1500	-
1962			
January	65	1970	-
February	56	1350	-
March	49	860	-
April	31	430	-
May	24	240	-
June	28	260	-
July	16	120	-
August	9.8	60	-
September	6.5	110	-
October	19	390	-
November	21	710	190
December	34	1140	580
Average (1962)	30	640	-

Table-6(contd)

Concentrations of Cs-137 and Zr-95 in ground level air at Delhi

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95
1961		
November	6.1	950
December	17	1250
1962		
January	46	1970
February	41	1640
March	61	1080
April	51	1050
May	65	920
June	57	550
July	13	150
August	14	220
September	14	270
October	51	1200
November	23	1210
December	32	1320
Average (1962)	39	970

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Gangtok

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
November	11	490	-
December	21	970	-
1962			
January	42	1670	-
February	49	1330	-
March	62	1030	-
April	52	680	-
May	49	630	-
June	8.9	110	-
July	19	30	-
August	1.7	30	-
September	3.5	50	-
October	11	220	-
November	27	900	240
December	43	1640	810
Average (1962)	31	700	-

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Nagpur

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
November	8.4	690	–
December	19	1310	–
1962			
January	48	1730	–
February	42	1220	–
March	+	+	–
April	44	720	–
May	40	480	–
June	51	420	–
July	19	140	–
August	18	150	–
September	6.1	160	–
October	29	860	810
November	4.9	700	180
December	30	1290	570
Average (1962)	30	720	–

+ Sample not available

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Ootacamund

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
November	3.3		-
December	15	530	-
1962			
January	21	810	-
February	29	630	-
March	32	550	-
April	30	340	-
May	19	200	-
June	29	260	-
July	20	150	-
August	14	170	-
September	2.9	180	-
October	7.6	120	-
November	15	180	-
December	14	270	210
Average (1962)	19	320	-

Table-6(contd)

Concentrations of Cs-137, Zr-95 and Ba-140 in ground level air at Srinagar

(Micro-microcuries per 1000 cubic meters of air)

Month	Cs-137	Zr-95	Ba-140
1961			
November	14	640	-
December	13	1020	-
1962			
January	*	*	-
February	*	*	-
March	88	1500	-
April	60	760	-
May	58	730	-
June	68	570	-
July	24	200	-
August	24	430	-
September	5.7	200	-
October	18	710	660
November	29	1040	-
December	23	1160	840
Average (1962)	40	730	-

*Sample not available

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Bangalore.

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1060	53	198	42	1490	103	550
February	836	36	167	48	990	48	200
March	438	58	131	16	230	32	
April	1064	70	265	56	710	75	
May	629	40	151	37	330	68	
June	386	22	72	14	170	37	
July	487	17	121	19	110	35	
August	240	13	93	18	60	24	
September	286	15	86	20	70	9.2	
October	269	20	113	19	34	16	
November	234	15	79	17	37	12	
December	285	24	83	24	25	20	
Average	518	32	130	27	280	40	

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Bombay

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1210	63	58	53	1790	49	440
February	1085	65	328	53	1620	82	270
March	1656	136	545	96	2300	165	230
April	1508	85	394	86	1520	192	60
May	1255	104	441	73	1060	165	-
June	642	45	245	33	350	74	-
July	388	24	110	31	168	27	-
August	369	19	111	20	115	33	-
September	415	25	131	27	74	36	-
October	414	44	145	30	74	39	-
November	284	20	61	19	30	19	-
December	482	42	167	44	42	36	-
Average	809	56	228	47	762	76	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 Mn-54 and Ba-140 in ground level air at Calcutta

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1095	42	253	52	1590	49	660
February	1059	45	290	46	1200	54	330
March	1782	75	450	99	1480	124	170
April	1144	58	360	58	720	101	40
May	745	44	157	44	520	68	-
June	915	42	231	46	400	79	-
July	410	21	130	27	170	39	-
August	185	16	71	13	70	21	-
September	226	20	45	17	60	23	-
October	182	18	56	10	21	13	-
November	279	18	88	36	27	24	-
December	394	38	45	31	28	31	-
Average	701	36	181	40	524	52	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 Mn-54 and Ba-140 in ground level air at Delhi

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1193	48	243	56	1530	57	520
February	1110	42	582	53	1360	64	350
March	2260	113	525	109	2190	170	160
April	1715	84	545	87	1290	148	70
May	1858	118	282	97	1180	213	-
June	1045	50	270	56	500	113	-
July	572	14	204	33	250	65	-
August	39	24	21	2.9	21	7.8	-
September	76	<	10	5.3	23	7.1	-
October	85	<	24	7.7	20	6.6	-
November	277	11	88	18	30	19	-
December	310	12	60	26	30	21	-
Average	795	43	238	46	702	74	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Gangtok

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1307	55	204	69	1600	90	760
February	1525	74	253	70	1680	94	210
March	2665	135	<	149	2400	196	210
April	1817	80	377	101	1290	154	50
May	1095	84	391	80	990	175	-
June	577	39	150	33	290	69	-
July	88	14	38	7.4	36	9.9	-
August	46	<	<	5.7	7.0	<	-
September	114	18	36	10	93	7.7	-
October	475	10	70	23	36	19	-
November	363	18	154	26	47	29	-
December	463	33	64	43	44	34	-
Average	877	47	145	51	709	73	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Nagpur

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1299	62	313	62	2200	69	550
February	1023	51	232	46	1180	58	300
March	1905	102	46	95	1700	139	120
April	1325	101	406	56	800	114	70
May	2790	110	244	100	1230	198	-
June	1075	88	416	63	600	138	-
July	769	47	270	53	300	91	-
August	292	26	105	20	76	26	-
September	334	19	107	23	70	31	-
October	204	17	78	18	22	18	-
November	238	21	78	20	24	15	-
December	385	37	131	32	25	30	-
Average	970	57	202	49	667	77	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Ootacamund

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1963						
January	560	19	50	21	1530	27
February	596	32	40	23	730	39
March	945	49	188	44	760	71
April	1066	71	251	52	610	101
May	983	72	230	50	490	92
June	479	19	107	28	240	63
July	393	25	139	21	130	39
August	358	18	98	25	122	34
September	231	14	85	16	62	17
October	224	16	53	18	40	19
November	41	11	41	8.0	14	7.8
December	118	20	88	7.6	10	15
Average	499	30	114	26	383	44

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Srinagar

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1963							
January	1513	82	134	66	1960	61	970
February	1108	75	240	51	1340	66	300
March	2020	64	564	120	1970	135	190
April	1175	71	145	66	920	103	60
May	1850	98	380	102	1150	196	-
June	2405	214	698	123	1260	141	-
July	1292	78	368	82	440	112	-
August	519	43	167	40	150	42	-
September	438	32	141	39	93	36	-
October	310	38	89	23	49	31	-
November	343	35	99	27	35	19	-
December	381	12	125	38	24	25	-
Average	1113	70	262	65	776	81	-

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Bangalore

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1964						
January	370	39	83	38	20	22
February	173	36	96	18	14	20
March	353	58	134	36	17	14
April	328	46	119	39	-	15
May	482	72	95	42	-	9.1
June	142	40	32	18	-	3.6
July	62	12	31	15	-	2.2
August	34	9.5	<	11	-	5.7
September	49	17	14	17	-	5.0
October*						
November	33	8.5	35	13	-	3.6
December	68	16	12.8	14	-	10
Average	180	33	59	24	-	9.9

* Sample not available

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Bombay

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1964					
January	360	27	124	31	30
February	640	73	250	65	55
March	831	93	338	98	68
April	897	111	324	101	65
May	537	65	184	61	37
June	158	27	65	21	11
July	138	17	50	17	9.3
August	58	7.8	21	8.4	3.3
September	66	10	26	8.9	3.6
October	129	22	60	17	8.4
November	74	14	33	13	4.8
December	78	20	37	17	5.6
Average	330	41	126	38	26

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Calcutta

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1964					
January*					
February	320	14	134	50	15
March	607	51	167	70	21
April	240	10	22	32	15
May*					
June*					
July*					
August*					
September*					
October	25	5.1	16	3.9	2.1
November	50	9.1	21	6.7	2.1
December	90	15	56	16	5.3
Average	222	17	69	30	10

* Sample not available.

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Delhi
(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1964						
January	528	56	192	41	27	37
February	617	57	168	61	5.9	41
March	700	59	96	73	-	47
April	475	67	<	62	-	32
May	475	71	153	64	-	30
June	251	45	84	30	-	16
July	<	<	<	4.5	-	<
August	<	<	<	5.8	-	<
September	101	25	55	13	-	11
October	145	28	64	22	-	9.8
November	93	22	39	17	-	6.7
December	105	23	50	23	-	7.6
Average	317	45	82	35	-	24

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Gangtok

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1964						
January	617	62	99	57	42	49
February	769	71	263	73	38	55
March	775	64	163	98	30	57
April	528	51	182	67	21	34
May	574	50	122	65	15	31
June	137	22	47	25	4.9	8.6
July	<	<	<	6.3	6.3	<
August	8.4	2.4	7.2	2.4	<	3.0
September	<	<	<	<	<	<
October	9.2	2.7	5.4	4.0	<	2.8
November	73	10	55	16	<	3.8
December	80	19	33	24	<	7.7
Average	324	40	94	40	–	25

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Nagpur

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1964					
January	489	53	165	38	34
February	418	38	89	41	25
March	466	59	104	50	35
April	624	75	212	66	32
May	539	83	192	64	27
June	214	44	77	26	11
July	75	11	23	11	12
August	54	9.1	13	4.2	9.0
September	40	9.5	22	8.4	2.4
October	38	11	23	11	5.8
November	63	15	41	15	3.8
December	84	17	35	20	6.3
Average	259	35	83	29	16

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Ootacamund

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1964						
January	253	29	24	14	18	10
February	131	32	19	19	19	8.8
March	335	32	155	41	12	24
April	336	52	90	35	–	16
May	324	60	141	45	–	20
June	128	37	43	17	–	8.2
July	105	23	31	7.8	–	11
August	60	14	7.2	12	–	6.2
September	58	9.8	16	8.1	–	3.3
October*						
November	15	6.4	24	10	–	7.2
December	27	2.0	24	5.7	–	5.5
Average	161	27	52	20	–	18

*Sample not available

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Srinagar

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1964						
January	638	50	247	57	39	40
February	458	33	14	51	18	19
March	587	68	137	63	-	39
April	474	76	186	56	-	15
May	609	90	229	77	-	15
June	490	66	163	63	-	12
July	388	55	151	54	-	11
August	142	30	60	20	-	8.3
September	93	19	47	15	-	5.8
October	61	15	32	16	-	6.4
November	39	15	24	8.7	-	3.2
December	100	9.8	18.3	11	-	5.0
Average	341	43	109	42	-	15

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Bangalore

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1965					
January	67	9.5	53	16	3.4
February	58	14	48	22	12
March	109	15	86	32	5.8
April	25	11	<	16	2.2
May	59	25	20	19	2.9
June	75	30	26	6.2	1.8

CR:mi

7-1-'66

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95, Mn-54 and Ba-140 in ground level air at Bombay

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54	Ba-140
1965							
January	55	17	29	12	-	4.4	-
February	116	22	57	32	-	9.1	-
March	155	25	83	40	-	11	-
April	108	9.9	52	30	-	7.6	-
May	97	22	48	32	-	7.5	-
June	45	11	24	11	19	2.3	88

CR:mi
18-1-66

Table-6(contd)

Concentrations of Ce-144,Sb-125,Ru-106,Cs-137,Zr-95 and Mn-54 in ground level air at Calcutta

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	73	16	16	13	-	4.5
February	97	21	25	19	-	6.1
March +						
April	49	10	28	12	-	3.8
May	41	10	26	11	-	3.9
June	47	6.2	32	9.3	14	2.4

+ Sample not available

CR:mi
10.1.'66

Table-6(contd)

Concentrations of Ce-144,Sb-125,Ru-106,Cs-137,Zr-95 and Mn-54 in ground level air at New Delhi

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	84	17	41	17	–	4.1
February	143	25	84	33	–	9.6
March	147	29	75	37	–	12
April	82	22	30	26	–	6.4
May	124	24	59	38	–	9.1
June	119	17	80	23	59	5.5

CR:mi
10-1-'66

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Gangtok.

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	125	15	62	28	–	7.2
February	150	14	60	33	–	11
March	170	17	75	39	–	9.6
April	46	9.4	27	14	–	3.3
May	39	9.2	20	10	–	5.2
June	24	4.2	13	4.8	11	0.7

CR:mi
10-1-'66

Table-6(contd)

Concentrations of Ce-144,Sb-125,Ru-106,Cs-137,Zr-95 and Mn-54 in ground level air at Nagpur.

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	65	13	39	13	-	5.0
February	114	19	38	29	-	7.2
March	132	9.9	61	29	-	7.3
April	60	14	32	18	-	4.1
May	67	11	42	22	-	7.0
June	63	17	51	13	28	9.2

CR:mi
10-1-'66

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 in ground level air at Ootacamund

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	46	25	33	9.8	-	3.0
February	57	9.5	28	12	-	8.0
March	116	2.4	3.7	26	-	7.6
April	39	17	29	14	-	4.1
May	58	27	30	17	-	2.6
June	9.6	6.9	14	8.6	24	<

CR:mi
10-1-'66

Table-6(contd)

Concentrations of Ce-144,Sb-125,Ru-106,Cs-137,Zr-95 and Mn-54 in ground level air at Srinagar

(Micro-microcuries per 1000 cubic meters of air)

Month	Ce-144	Sb-125	Ru-106	Cs-137	Zr-95	Mn-54
1965						
January	39	15	20	9.6	-	5.0
February	66	14	19	16	-	6.4
March	107	11	60	23	-	6.0
April	56	10	20	15	-	4.1
May	107	24	47	23	-	7.9
June	89	20	58	17	28	4.5

CR:mi
10-1-'66

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Bombay

(Results of parallel collection)
(Micro-microcuries per 1000 cubic meters of air)

Month		Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1964						
March	(a)	1012	105	411	118	83
	(b)	-	-	-	-	-
	(c)	703	94	287	84	56
April	(a)	927	136	322	112	71
	(b)	-	-	-	-	-
	(c)	972	102	364	102	66
May	(a)	546	67	196	69	39
	(b)	509	60	164	54	37
	(c)	678	83	234	73	45
June	(a)	155	27	61	21	11
	(b)	192	33	73	25	12
	(c)	167	26	76	22	12
July	(a)	128	20	46	18	8.9
	(b)	180	19	66	21	13
	(c)	121	16	43	14	6.9
August	(a)	63	7.8	23	8.7	4.2
	(b)	91	11	32	12	5.3
	(c)	38	6.7	15	7.0	1.5
Sept.	(a)	84	11	31	10	4.3
	(b)	76	10	34	11	4.5
	(c)	45	13	16	8.1	3.0
Oct.	(a)	149	25	65	21	10
	(b)	162	32	75	22	10
	(c)	106	16	59	13	5.6
Nov.	(a)	67	15	26	14	4.6
	(b)	-	-	-	-	-
	(c)	104	26	52	14	7.1
Dec.	(a)	74	22	37	20	6.9
	(b)	-	-	-	-	-
	(c)	103	22	46	14	4.7

(a) Sample volume 40,000 cubic meters of air, Esparto grass filter paper.

(b) Sample volume 15,000 cubic meters of air, Esparto grass filter paper.

(c) Sample volume 5,000 cubic meters of air, Hollingsworth and Vose H-70 filter paper.

Table-6(contd)

Concentrations of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 in ground level air at Bombay

(Results of parallel collections)

(Micro-microcuries per 1000 cubic meters of air)

Month		Ce-144	Sb-125	Ru-106	Cs-137	Mn-54
1965						
January	(a)	57	18	31	13	4.1
	(b)	-	-	-	-	-
	(c)	52	15	27	12	4.7
Feb.	(a)	113	17	56	31	9.6
	(b)	130	30	62	34	11
	(c)	104	20	54	30	6.9
March	(a)	137	33	82	39	12
	(b)	179	28	93	45	13
	(c)	151	15	73	37	8.9
April	(a)	114	12	61	34	9.6
	(b)	99	8.5	41	29	6.7
	(c)	111	9.3	53	26	6.4
May	(a)	105	30	52	34	8.2
	(b)	92	20	41	30	6.7
	(c)	95	14	52	31	7.7
June	(a)	46	11	25	11	3.2
	(b)	46	11	23	11	2.2
	(c)	43	9.2	24	11	1.7

(a) Sample volume 40,000 cubic meters of air, Esparto grass filter paper.

(b) Sample volume 15,000 cubic meters of air, Esparto grass filter paper.

(c) Sample volume 5,000 cubic meters of air, Hollingsworth and Vose H-70 filter paper.

CR:mi
28-1-66

Table 7

Monthly deposition of Ce-144, Ru-106, Cs-137, and Zr-95 at Srinagar

Month	Ce-144 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
1958					
October	5.9	1.5	0.3	5.6	6.1
November	7.3	0.8	0.6	5.8	11.8
December	27	9.8	1.2	35	96.5
1959					
January	27	10	1.1	33	162.1
February	26	18	2.0	17	119.8
March	39	20	2.3	43	121.4
April	26	6.2	1.9	18	26.6
May	37	24	2.6	22	68.7
June	7.4	4.5	0.6	1.9	7.3
July					177.6
August	1.0	0.2	0.5	<	12.5
September					24.7
October					34.0
November	2.1	0.4	0.7	<	111.4
December	0.2	<	0.1	<	13.9
Average for 1959	13.8	6.9	1.0	11.0	73.3

Table-7(contd)

Monthly deposition of Ce-144, Ru-106, Cs-137 and Zr-95

at Srinagar

1960

Month	Ce-144 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	0.1	<	0.2	-	33.3
February	0.2	0.1	0.2	0.2	5.8
March	1.1	0.8	1.3	2.4	150.1
April	<	<	0.5	-	117.8
May	<	<	<	-	57.1
June	<	<	0.1	-	20.4
July	<	<	<	-	64.3
August	<	<	<	-	75.4
September	<	<	<	-	14.5
October	<	<	<	-	Nil
November	<	<	<	-	5.9
December	<	<	<	-	58.8
Average	-	-	0.3	-	50.2

Table-7(contd)

Monthly deposition of Cs-137 and Zr-95 at Srinagar

1961

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	<	–	80.6
February	<	–	50.5
March	0.1	–	76.1
April	<	–	114.5
May	<	–	54.7
June	0.7	–	48.6
July	<	–	49.9
August)	0.2	–	45.6
September)			20.7
October	<	–	32.4
November	<	16	39.9
December		5.9	14.1
Average	0.2	–	52.2

Table-7(contd)

Monthly deposition of Cs-137 and Zr-95 at Bangalore

1962

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	0.1	1.9	0.9
February	0.2	4.4	8.3
March	0.1	2.4	18.6
April	0.4	3.5	122.5
May	0.1	5.3	120.7
June	0.4	3.2	77.0
July	<	3.0	45.7
August	0.1	1.6	129.7
September	<	2.1	188.7
October	<	0.5	241.7
November	<	0.3	6.7
December	<	0.6	92.2
Average	0.1	2.4	87.7

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 Zr-95 and Mn-54 at Bombay

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
1961							
November	<	<	<	<	0.4	<	Nil
December	<	<	<	<	0.7	<	Nil
1962							
January	<	<	<	<	6.1	<	t
February	<	<	<	<	<	<	Nil
March	<	<	<	<	0.4	<	Nil
April	<	<	<	<	0.8	<	t
May	<	<	<	<	2.8	<	11.4
June	52	0.2	16	2.7	30	1.2	347.2
July	71	0.4	17	2.8	63	1.5	945.4
August	58	1.1	12	1.9	26	2.2	373.7
September	16	1.3	6.4	0.9	15	0.7	532.3
October	<	<	<	<	2.0	<	1.0
November	<	<	<	<	0.3	<	Nil
December	<	<	<	<	1.0	<	16.0
Average for 1962	16.4	0.2	4.3	0.7	12.3	0.5	185.8

Table-7(contd)

Monthly deposition of Cs-137 and Zr-95 at Calcutta

1962

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	0.2	3.5	13.3
February	0.4	8.6	6.2
March	0.1	2.3	0.6
April	1.7	20	124.3
May	1.4	9.7	74.7
June	1.0	13	211.3
July	0.3	5.0	151.9
August	0.3	1.1	158.2
September	<	0.6	280.3
October	0.2	4.1	136.8
November	0.1	1.5	t
December	<	1.5	t
Average	0.5	5.9	96.5

Table-7(contd)

Monthly deposition of Cs-137 and Zr-95 at Delhi

1962

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	0.5	17	33.2
February	0.6	18	12.6
March	0.4	12	8.0
April	0.3	2.8	Nil
May	0.8	8.3	0.5
June	0.5	5.2	27.9
July	0.2	1.8	200.7
August	0.5	7.6	84.6
September	0.2	4.3	183.1
October	0.1	2.2	Nil
November	0.2	2.9	2.0
December	0.1	2.7	24.9
Average	0.4	7.0	48.1

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Gangtok

1962

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfa mms
January)					5.4	<	60.5
)	7.1	0.4	9.0	0.5			
February)					9.1	<	36.2
March	6.2	0.9	9.8	0.8	7.6	<	102.5
April	12.2	1.1	9.2	0.5	8.7	0.2	129.7
May	108	9.0	67	5.8	82	2.9	609.1
June	23	1.7	8.4	1.4	13	0.9	564.8
July	9.0	0.9	3.6	0.5	6.7	0.7	528.8
August	9.5	0.3	1.3	0.4	3.9	0.2	779.0
September	1.8	<	0.6	0.2	1.2	0.1	296.5
October	<	<	<	<	0.4	<	51.8
November	<	<	<	<	<	<	t
December	<	<	<	<	<	<	11.8
Average	14.7	1.2	9.1	0.8	11.5	0.4	264.2

Table-7(contd)

Monthly deposition of Cs-137 and Zr-95 at Nagpur

1962

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms
January	0.2	4.1	5.4
February	0.1	0.7	10.9
March	0.3	3.3	12.6
April	0.2	5.4	19.1
May	0.1	3.0	58.5
June	1.2	4.9	50.2
July	<	3.8	307.0
August	0.7	9.2	280.5
September	0.3	4.1	380.4
October	<	0.9	9.9
November	<	0.6	12.7
December	<	0.4	111.2
Average	2.8	3.4	104.9

Table-7(contd)

Monthly deposition of Cs-137 and

Zr-95 at Ootacamund

1962

Month	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Rainfall mms.
January	<	<	3.8
February	<	<	40.2
March	<	3.3	18.8
April	0.1	4.1	79.4
May	0.2	2.6	369.4
June	0.1	2.3	77.0
July	0.6	6.9	171.0
August	0.3	2.3	166.8
September	0.1	3.0	136.4
October	0.2	1.6	286.0
November	<	0.3	26.2
December	0.1	1.2	100.0
Average	0.1	2.5	123.8

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Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Srinagar

1962

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	7.0	0.4	1.3	0.2	9.7	0.2	12.2
February	26	1.1	7.8	1.7	42	0.2	80.4
March	45	0.9	14	0.7	50	0.9	29.9
April	16	1.4	9.4	0.7	7.9	0.2	111.3
May	108	2.2	25	1.0	53	1.7	35.4
June	33	0.1	6.6	0.3	23	0.9	31.3
July	25	1.5	6.7	1.3	16	0.7	48.2
August	17	0.9	3.2	0.6	8.2	0.5	34.3
September	14	0.9	2.3	0.5	7.9	0.3	105.4
October	7.0	0.2	0.4	0.1	9.2	0.2	7.4
November	21	0.9	5.6	0.7	41	1.0	80.9
December	14	0.6	2.4	0.5	19	0.5	49.1
Average	27.7	0.9	7.1	0.7	23.9	0.6	52.1

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Bangalore

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	<	<	16.6
February	<	<	<	<	<	<	Nil
March	3.2	0.5	1.2	0.2	2.0	<	7.6
April	31	0.7	11	1.5	23	2.1	106.5
May	17	2.8	12	1.4	12	1.9	102.2
June	7.1	0.3	4.2	0.4	4.0	0.3	93.7
July	9.4	0.2	2.4	0.4	3.6	1.0	23.3
August	18	0.3	6.0	0.9	-	1.0	203.3
September	8.7	0.2	2.8	0.4	-	0.5	180.6
October	7.5	2.4	3.1	0.3	-	0.4	260.7
November	4.5	<	1.5	0.2	-	0.4	31.3
December	13.3	0.6	7.8	0.6	-	0.6	14.8
Average	10.0	0.7	4.3	0.5	3.7	0.7	86.7

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137

Zr-95 and Mn-54 at Bombay

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	0.5	<	Nil
February	<	<	<	<	1.2	<	Nil
March	<	<	<	<	0.8	<	Nil
April	<	<	<	<	0.6	<	Nil
May	<	<	<	<	1.4	<	0.3
June	85	3.8	28	3.9	30	8.7	400.1
July	97	<	37	5.9	22	10.3	925.9
August	105	<	38	6.5	21	9.2	1044.1
September	34	1.7	13	1.8	4.6	2.3	238.0
October	13	0.3	7.0	0.8	<	0.5	47.8
November	<	<	<	<	<	<	4.0
December	<	<	<	<	<	<	Nil
Average	27.8	0.5	10.2	1.6	6.8	2.6	221.7

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Calcutta

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	0.9	<	t
February	2.6	0.2	1.4	0.1	2.6	0.3	t
March	9.6	0.5	3.6	0.5	8.5	1.3	22.9
April	64	1.8	24	3.7	51	6.4	93.2
May	44	1.5	19	2.5	27	3.7	118.4
June	13	0.8	11	0.9	7.4	0.4	375.4
July	30	<	7.9	1.3	<	2.5	299.8
August	6.6	<	2.0	0.4	<	0.6	213.7
September	2.0	<	0.8	<	<	0.1	438.0
October	4.0	0.3	1.5	0.4	<	0.4	100.8
November	14	<	0.9	0.6	<	0.2	15.5
December	<	<	<	<	<	<	Nil
Average	15.8	0.4	6.0	0.9	8.1	1.3	139.8

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Delhi

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	4.0	<	0.9	0.2	4.0	<	24.9
February	11	0.5	2.0	0.5	12	0.5	12.1
March	4.8	<	2.4	0.3	4.2	0.1	3.2
April	13	<	5.6	0.9	7.1	1.4	5.4
May	15	1.6	6.3	1.0	10	1.3	14.4
June	79	4.8	22	3.7	52	6.0	117.6
July	6.3	1.6	3.1	0.3	2.6	1.1	45.8
August	1.3	0.3	1.6	0.2	1.2	0.3	298.1
September +							277.7
October	<	<	<	<	<	<	Nil
November	5.3	0.2	1.1	0.3	<	0.3	1.2
December	3.7	0.7	1.2	0.3	<	0.2	27.4
Average	13.0	0.9	4.2	0.7	8.5	1.0	69.0

+ Sample not available

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Gangtok

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfal mms
January	6.1	1.7	4.8	0.1	8.7	0.5	15.0
February	32	2.8	12	1.8	36	1.9	41.5
March	35	2.4	14	1.9	35	2.5	130.5
April	113	2.5	41	5.4	56	10.3	423.3
May	122	14	61	8.3	58	20	442.0
June)							691.7
)	105	10.4	32	6.2	28	15	
July)							709.4
August	10.3	<	3.1	0.4	0.4	0.6	710.1
September)							439.8
)	2.3	<	0.8	0.4	0.4	0.4	
October)							156.4
November	1.8	0.1	1.7	0.2	0.2	0.5	67.7
December +							31.5
Average	38.9	3.1	15.5	2.2	20.2	4.7	321.6

+ Sample not available

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 Zr-95 and Mn-54 at Nagpur

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	<	<	2.0
February +							17.0
March)	28	0.8	11	1.5	23	2.3	8.9
April)							24.2
May	51	3.5	17	3.0	30	4.8	10.0
June	58	4.5	19	3.6	33	5.7	199.8
July	23	0.6	8.1	1.6	<	2.8	202.6
August	6.2	0.9	1.3	0.4	<	0.4	321.1
September	15	0.4	2.7	0.8	<	1.4	62.4
October	4.5	<	1.1	0.2	<	0.2	84.6
November	2.5	<	0.6	<	<	<	t
December	<	<	<	<	<	0.1	Nil
Average	17.1	1.0	5.5	1.0	8.7	1.6	76.3

+ Sample not available

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Ootacamund

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	1.7	<	0.1	0.1	0.1	52.0
February	1.4	0.1	0.2	0.1	0.1	Nil
March+						32.4
April	24	<	8.3	1.1	2.1	97.4
May	20	1.0	4.9	0.9	1.6	117.8
June	4.7	0.4	2.4	0.4	<	68.6
July						152.6
August						108.8
September	57	4.6	21	4.7	6.1	127.2
October						250.2
November	1.0	<	1.0	0.1	<	107.6
December +						76.6
Average	10.8	0.6	3.7	0.7	1.0	99.2

+ Samples not available

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137

Zr-95 and Mn-54 at Srinagar

1963

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January)	19	0.8	4.1	0.7	22	0.6	49.1
February)							31.1
March	195	9.9	53	8.1	157	16.4	228.9
April	118	5.0	38	4.7	60	8.8	169.9
May	4.8	2.2	14	0.1	3.1	0.5	58.6
June	139	5.1	38	5.6	45	12	20.8
July	36	2.2	14	1.3	7.4	3.5	28.5
August	21	1.5	4.7	0.7	3.4	1.5	31.3
September	2.9	0.1	4.1	<	0.8	0.2	13.7
October	19	0.4	6.0	0.9	1.2	1.3	9.6
November	15	1.0	6.8	0.8	1.8	1.0	60.7
December	7.5	<	4.3	0.7	0.4	0.7	79.9
Average	48.1	2.3	15.6	2.0	25.2	3.9	65.2

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, and Mn-54 at Bangalore

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	<	<	<	<	<	Nil
February	<	<	<	<	<	Nil
March	<	<	<	<	<	Nil
April	3.9	0.3	1.5	0.3	0.3	10.0
May	9.6	2.5	6.0	1.6	0.7	80.4
June	4.5	0.6	1.5	0.5	0.4	82.6
July	2.7	0.1	1.1	0.5	0.3	285.6
August	2.9	0.5	1.1	0.5	0.2	105.7
September	0.5	0.1	0.5	0.2	<	287.7
October	0.7	<	0.1	0.1	<	141.5
November	<	<	<	<	<	189.8
December*						8.3
Average	2.3	0.4	1.1	0.3	0.2	99.3

* Pooled sample for December 1964 to April 1965.

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Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137

Zr-95 and Mn-54 at Bombay

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	<	<	Nil
February	<	<	<	<	<	<	Nil
March	<	<	<	<	<	<	Nil
April	<	<	<	<	<	<	Nil
May	<	<	<	<	<	<	t
June	18	3.8	6.7	2.5	0.4	2.0	644.3
July	15	2.9	7.6	2.6	<	1.2	548.1
August	8.8	1.2	3.1	1.3	<	0.4	532.9
September	5.7	0.5	3.7	0.7	<	0.4	326.0
October	1.0	<	0.5	0.2	<	<	73.5
November	<	<	<	<	<	<	Nil
December	<	<	<	<	<	<	Nil
Average	4.0	0.7	1.8	0.6		0.3	177.1

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Calcutta

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	0.4	<	0.2	<	<	Nil
February						18.7
March	12	1.1	5.1	1.4	0.7	11.0
April	17	2.7	6.4	1.5	0.7	114.3
May	28	2.6	9.8	2.8	1.9	96.7
June	15	1.5	6.1	1.2	1.2	132.6
July	1.0	<	0.5	0.2	0.1	551.1
August	1.1	0.1	0.8	0.2	<	216.5
September		<	<	<	<	164.4
October	0.7	<	<	0.1	<	131.7
November	<	<	<	<	<	48.0
December +						Nil
Average	5.6	0.7	2.6	0.7	0.4	123.7

+ Sample not available

Table-7(contd)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Delhi

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	2.2	0.2	1.8	0.2	0.3	0.2
February	<	<	<	<	<	1.5
March	4.1	0.6	2.2	0.5	0.4	1.0
April	5.7	0.5	2.0	0.6	0.4	4.8
May	6.3	0.9	2.3	0.7	0.4	16.0
June	1.1	0.5	0.4	0.1	0.1	27.9
July	1.9	0.5	0.7	0.3	0.1	538.2
August	4.3	0.7	1.7	0.7	0.2	446.3
September	2.3	0.5	0.6	0.4	0.1	181.5
October +						Nil
November	<	<	<	<	<	Nil
December +						15.7
Average	2.8	0.4	1.2	0.4	0.2	102.8

+ Sample not available

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Gangtok

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January						5.8
February	16	4.0	19	1.4	0.5	17.8
March						96.7
April	38	8.8	23	2.3	1.9	333.4
May						378.3
June	9.9	1.9	4.6	0.8	0.8	683.4
July	11	1.6	8.6	1.8	0.7	825.5
August	1.0	0.1	0.8	0.1	<	371.5
September						374.3
October	<	<	<	0.1	<	85.7
November	1.0	0.1	0.3	0.2	0.1	37.2
December+						17.1
Average	7.0	1.5	5.1	0.6	0.4	268.9

+ Pooled sample December 1964 to March 1965 decay corrected to February 1st.

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Nagpur

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	1.2	0.3	0.8	0.2	0.2	Nil
February	6.0	0.3	1.7	0.5	0.4	1.5
March	3.6	0.4	0.6	0.5	0.2	9.8
April	<	<	<	<	<	Nil
May	<	<	<	0.1	<	4.8
June	15	0.9	5.8	1.4	1.9	249.7
July	4.9	0.6	2.3	1.1	0.5	145.9
August	3.0	<	0.9	0.3	0.2	418.8
September	2.2	0.2	0.9	0.5	0.1	201.4
October	0.5	<	<	0.1	<	14.3
November	1.4	<	<	0.2	<	5.1
December	<	<	<	<	<	Nil
Average	3.2	0.2	1.1	0.4	0.3	87.6

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Ootacamund

1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	<	<	<	<	<	Nil
February	<	<	<	<	<	0.4
March	<	<	<	<	<	5.0
April	<	<	<	<	<	12.6
May	14	1.1	7.9	1.4	0.6	160.0
June	3.1	0.3	1.3	0.3	0.2	68.4
July	2.5	0.5	1.1	0.2		309.6
August	1.6	0.3	1.7	0.2	0.2	588.8
September	0.7	0.1	1.7	0.1	0.1	116.4
October	2.1	0.2	1.6	0.2	<	173.6
November	<	<	<	<	<	220.6
December +						183.0
Average	2.2	0.2	1.4	0.2	0.1	153.2

+ Sample not available

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137, Zr-95 and Mn-54 at Srinagar 1964

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Zr-95 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms
January	13	0.2	2.5	1.4	0.7	0.7	85.3
February	7.3	0.7	5.4	0.9	0.3	0.6	32.9
March	20	1.1	9.7	2.3	0.4	1.2	54.0
April	42	2.4	26	4.4	0.9	2.5	109.9
May	47	1.7	15	5.6	0.3	3.4	30.3
June	17	2.5	7.4	2.6	0.2	1.4	77.0
July	13	0.2	4.2	1.4	<	0.7	89.7
August	3.0	0.1	0.9	0.3	<	0.2	38.0
September	1.5	0.4	0.7	0.3	<	<	18.4
October*							Nil
November	1.6	0.4	0.7	0.3	<	0.1	3.8
December	1.3	0.6	1.1	0.5	<	0.1	152.9
Average	15.1	0.9	6.7	1.8	-	1.0	57.7

*Sample not available.

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Bangalore

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January						Nil
February						Nil
March						Nil
April	* 0.4	0.1	0.3	<	<	31.2
May	1.9	0.1	0.6	0.3	0.1	27.3
June	<	<	<	<	<	56.4

* Pooled sample for December 1964 to April 1965.

CR:mi
4-1-66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Bombay

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	<	<	<	<	<	Nil
February	<	<	<	<	<	Nil
March	<	<	<	<	<	Nil
April	<	<	<	<	<	Nil
May	<	<	<	<	<	Nil
June	9.6	1.2	13.1	0.5	0.5	603.4

CR:mi
4-1-66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Calcutta

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	1.4	0.2	0.5	0.1	0.1	0.6
February	1.5	0.7	1.2	0.5	0.2	28.2
March	1.0	0.5	0.7	0.4	0.1	22.4
April	<	<	<	<	<	45.7
May	0.4	<	0.2	0.1	<	78.6
June	3.4	0.4	1.9	0.7	0.1	268.3

CR :mi:3-1-'66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Delhi

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January*	0.4	0.1	0.5	<	<	8.8
February**	1.7	0.5	0.9	0.4	0.1	8.7
March	1.5	0.5	0.8	0.4	0.1	1.6
April***						13.9
May	3.4	0.5	2.8	0.5	0.2	5.8
June						3.0

* The collection period was from 1-1-65 to 15-2-65

** The collection period was from 15-2-65 to 1-3-'65

*** The collection period was from 1-4-65 to 15-6-65

CR :mi:3-1-'66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Gangtok

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	*					8.4
February	15.5	2.3	8.9	5.7	1.4	34.0
March						91.6
April	**					217.8
May	17.1	1.3	8.3	3.8	0.7	476.5
June						692.2

* Pooled sample for December 1964 to March 1965.

** Pooled sample for April 1965 to June 1965.

Decay corrected to middle date of collection.

CR:mi
4-1-66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru106, Cs-137 and Mn-54 at Nagpur

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	0.3	<	0.3	0.1	0.1	19.9
February	2.6	0.7	0.9	0.9	0.3	28.5
March	5.4	0.6	2.7	1.4	0.2	2.7
April	7.1	0.9	2.8	2.4	0.5	15.8
May	0.4	<	0.3	0.2	0.1	1.4
June	1.9	0.3	1.9	0.5	0.2	300.1

CR :mi:3-1-66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Ootacamund

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	*					Nil
February						Nil
March						9.6
April						88.0
May	1.5	0.2	0.5	0.1	0.1	94.8
June	<	<	<	<	<	24.2

* Sample not available

CR:mi
6-1-'66

Table 7 (contd.)

Monthly deposition of Ce-144, Sb-125, Ru-106, Cs-137 and Mn-54 at Srinagar

1965

Month	Ce-144 mc/Km^2	Sb-125 mc/Km^2	Ru-106 mc/Km^2	Cs-137 mc/Km^2	Mn-54 mc/Km^2	Rainfall mms.
January	3.6	0.7	1.6	1.2	0.3	89.9
February	7.7	1.2	3.5	2.4	0.5	101.1
March	7.0	2.3	3.7	2.3	0.6	63.9
April	0.9	0.9	1.9	0.9	0.2	113.5
May	8.7	1.3	6.3	2.8	0.4	148.9
June	2.5	0.4	1.7	0.7	0.2	20.5

CR:mi
4-1-66.