TABLE 2-10

SUMMARY OF 1954 AIRBORNE ENRICHED URANIUM EMISSIONS

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})			
	Building 881 Duct 1	**Building 881 Duct 2**	**Building 881 Duct 3**	**Building 881 Duct 4**
January	*	*	*	*
February	*	*	*	*
March	*	*	*	*
April	*	*	*	*
May	*	*	*	*
June	0.031	0.0040	0.032	0.0080
July	0.012	0.0060	0.0020	0.010
August	0.0050	0.013	0.011	0.0070
September	0.0020	0.0070	0.013	0.016
October	0.0080	0.0060	0.0005	0.0080
November	0.0070	0.0020	0.0015	0.0050
December	0.0020	0.0020	0.0020	0.0050
1954 Average Daily Concentration	0.0056	0.0033	0.0052	0.0049
Release Totals (µCi)	2.7	1.6	2.5	2.3
Grand Total (μCi)	9.1			

NOTES:

Source of Raw Data: Dow, 1963h.

* No data were located for this time period.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-11

SUMMARY OF 1955 AIRBORNE ENRICHED URANIUM EMISSIONS

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})			
	Building 881 Duct 1	**Building 881 Duct 2**	**Building 881 Duct 3**	**Building 881 Duct 4**
January	0.0020	0.014	0.002	0.0060
February	0.010	0.037	0.044	0.046
March	0.0080	0.11	0.044	0.024
April	0.0090	0.011	0.021	0.023
May	0.020	0.033	0.040	0.022
June	0.022	0.012	0.013	0.011
July	0.014	0.020	0.036	0.0050
August	0.16	0.21	0.18	0.098
September	0.018	0.033	0.10	0.046
October	0.031	0.026	0.066	0.032
November	0.016	0.025	0.054	0.019
December	0.018	0.016	0.039	0.026
1955 Average Daily Concentration	0.028	0.046	0.053	0.03
Release Totals (µCi)	13	22	25	14
Grand Total (μCi)	74			

NOTES:

Source of Raw Data: Dow, 1963h.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-12

SUMMARY OF 1956 AIRBORNE ENRICHED URANIUM EMISSIONS

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})			
	Building 881 Duct 1	**Building 881 Duct 2**	**Building 881 Duct 3**	**Building 881 Duct 4**
January (excluding January 24th)	0.015	0.079	0.065	0.028
February	0.055	0.040	0.055	0.023
March	0.061	0.22	0.11	0.085
April	0.12	0.12	0.21	0.14
May	0.13	0.24	0.10	0.15
June	0.10	0.18	0.093	0.14
July	0.063	0.23	0.16	0.22
August	0.11	0.11	0.049	0.11
September	0.086	0.16	0.087	0.13
October	0.067	0.14	0.053	0.14
November	0.064	0.22	0.075	0.16
December	0.052	0.15	0.069	0.12
Average Daily Concentration (excluding January 24th)	0.077	0.16	0.092	0.12
Total Released (µCi) (excluding January 24th)	37	76	44	57
Average Daily Concentration on January 24, 1956	540	130	6.5	25
Total Released (µCi) on January 24th, 1956	700	170	8.5	33
1956 Release Totals (μCi)	740	250	53	90
Grand Total (μCi)	1100			

NOTES: Source of Raw Data: Dow, 1963h.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,

3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-14

SUMMARY OF 1954 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDING 444

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})	
	Building 444 Duct 2	Building 444 Duct 3
January	0.0068	2.1
February	0.031	0.79
March	0.22	1.1
April	0.19	1.5
May	0.10	1.8
June	0.19	1.7
July	0.24	1.9
August	0.18	3.9
September	0.38	2.5
October	0.12	4.4
November	0.15	5.6
December	0.077	2.1
1954 Average Daily Concentration	0.16	2.4
Total Released (µCi)	130	1100

NOTES:

Sources of Raw Data: Dow, 1954-1956.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-15

SUMMARY OF 1955 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDING 444

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})	
	Building 444 Duct 2	Building 444 Duct 3
January	0.13	2.1
February	0.24	6.0
March	0.31	2.2
April	0.39	4.0
May	0.32	2.7
June	0.35	3.4
July	0.26	3.6
August	0.080	2.3
September	0.11	3.4
October	0.66	4.5
November	0.68	6.4
December	0.22	4.3
1955 Average Daily Concentration	0.32	3.8
Total Released (μCi)	260	1800

NOTES:

Sources of Raw Data: Dow, 1954-1956.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-16

SUMMARY OF 1956 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDINGS 444 AND 447

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})		
	Building 444		Building 447
	Duct 2	Duct 3	
January	0.25	1.9	*
February	0.19	3.6	*
March	0.32	1.6	*
April	0.16	1.4	*
May	0.09	1.1	*
June	0.19	1.4	*
July	0.24	1.8	*
August	0.59	1.8	*
September	0.29	1.3	*
October	0.55	1.4	0.2
November	0.28	2.2	0.082
December	**	**	0.13
1956 Average Daily Concentration	0.26	1.7	0.035
Total Released (µCi)	210	810	15

NOTES:

Sources of Raw Data: Dow, 1954-1956.

* Building 447 monitoring apparently commenced in October 1956.

** Data were not located for this time period.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-17

SUMMARY OF 1958 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDINGS 444 AND 447

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})		
	Building 444		Building 447
	Duct 2	Duct 3	
January	0.055	0.18	0.057
February	0.055	0.28	0.040
March	0.088	0.29	0.50
April	0.043	0.15	0.088
May	0.014	0.21	3.1
June	0.19	0.29	0.19
July	17	0.38	0.44
August	0.050	0.27	0.46
September	0.038	0.35	0.028
October	0.11	0.39	0.04
November	0.20	0.30	0.065
December	0.35	0.38	0.070
1958 Average Daily Concentration	1.5	0.29	0.42
Total Released (µCi)	1200	140	120

NOTES:

Source of Raw Data: Dow, 1963h.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-18

SUMMARY OF 1959 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDINGS 444 AND 447

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})		
	Building 444		Building 447
	Duct 2	Duct 3	
January	0.20	0.34	0.054
February	0.45	0.33	0.045
March	0.031	0.38	0.033
April	0.028	0.30	0.035
May	0.045	0.20	0.035
June	0.0065	0.33	0.025
July	0.013	0.34	0.036
August	0.11	0.20	0.036
September	0.046	0.30	0.031
October	0.068	0.26	0.064
November	0.093	0.25	0.038
December	0.034	0.23	0.051
Total	1.4	3.4	0.48
1959 Average Daily Concentration	0.12	0.28	0.040
Total Released (µCi)	95	130	17

NOTES:

Source of Raw Data: Dow, 1963h.

Annual release quantities were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 365 d y^{-1}, and
4. 4.50×10^{-7} μCi dis^{-1} min.

TABLE 2-19

SUMMARY OF 1960 AIRBORNE DEPLETED URANIUM EMISSIONS FROM ROCKY FLATS BUILDINGS 444 AND 447

Month	Average Daily Concentrations of Long-Lived Alpha Emitters (dis min^{-1} m^{-3})		
	Building 444		Building 447
	Duct 2	Duct 3	
January	0.0065	0.26	0.084
February	0.0065	0.15	0.13
March	0.054	0.11	0.029
April	0.017	0.15	0.028
May	0.0060	0.24	5.2
June	0.010	0.27	0.025
July	0.084	0.25	0.031
August	0.097	0.29	0.031
September	*	*	*
October	*	*	*
November	*	*	*
December	*	*	*
1960 Average Daily Concentration	0.035	0.21	0.69
Total Release (µCi)	19	68	200

NOTES:

Source of Raw Data: Dow, 1963h.

* Emissions from Buildings 444 and 447 were not independently reconstructed for these months. Emissions for these buildings were included in the calculated totals prepared for the Final Environmental Impact Statement.

Release quantities for January through August 1960 were calculated by multiplying:

1. The average concentration (dis min^{-1} m^{-3}) for each duct or stack from above,
2. The average duct or stack flow rate (m^3 d^{-1}) from Table 2-2,
3. 243 d, and
4. 4.50×10^{-7} μCi dis^{-1} min.