TABLE 11.—*Number of Persons in Various Weighted Exposure Categories by Length of Employment*

Length of Employment	Weighted Exposure Categories I	II	III	Unknown	Total
5–9	707	598	490	0	1,795
10–19	663	883	851	1	2,398
20–29	314	363	243	2	922
30–39	247	218	137	1	603
40–49	76	67	41	1	185
50+	24	21	10	0	55
Totals	2,031	2,150	1,772	5	5,958
Average years of exposure	17.8	17.8	16.6	29.0	17.5

in which case the heaviest weighted exposure (Category III) would show the shortest length of employment. Table 11, which lists the number of persons in various exposure categories by length of employment indicates that this error has not occurred. In fact, the average number of years of employment for each exposure category is almost identical.

Table 12, which develops the rates for smokers and nonsmokers, is most striking. It shows that not a single case of lung cancer developed among the 1265 nonsmokers and that all cases of lung cancer, both "proved" and "suspected," occurred in smokers.

Table 12 was so striking that it was felt that further verification was necessary. It was possible that some abnormal distribution may have occurred, e. g., the nonsmokers may have included a larger percentage of young men. Consequently, additional Tables, 13, 14, and 15 were constructed to show the distribution of smokers and nonsmokers by age, length of employment, and degree of exposure. Although there are slight differences, they do not account for the fact that all observed cases of lung cancer were in smokers. In respect to age (Table 13) the combined average age of the smokers was 4.9 years less than that of the nonsmokers. Table 14 shows that as far as length of employment is con-

TABLE 12.—*Lung Cancer Death for Smokers and Nonsmokers*

Number of Persons and Number of Lung Cancer Deaths by Smoking Habits

	Persons	No. of Deaths Proved	Total
Smokers	4,673	9	12
Nonsmokers	1,265	0	0
Unknown	20	0	0
Totals	5,958	9	12

Annual Lung Cancer Death Rates per 100,000 Man-Years of Exposure by Smoking Habits

	No. of Deaths Proved	Total
Smokers	32	43
Nonsmokers	0	0
Unknown	0	0
Over-all	25	34

TABLE 13.—*Number and Percentage Distribution of Smokers and Nonsmokers by Age Groups*

Number

Age Group	Smoker	Nonsmoker	Unknown
20–44	3,200	689	12
45–54	896	224	4
55–64	411	202	2
65+	164	150	1
Unknown	2	0	1
Totals	4,673	1,265	20
Average age	39.3	44.2	40.7

Percentage Distribution

Age Group	Smoker	Nonsmoker	Unknown
20–44	68.5	54.5	60.0
45–54	19.2	17.7	20.0
55–64	8.8	16.0	10.0
65+	3.5	11.8	5.0
Unknown	*	0.0	5.0
Totals	100%	100%	100%

* Less than 0.05%.

TABLE 14.—*Number and Percentage Distribution of Smokers and Nonsmokers by Length of Employment*

Number

Length of Employment	Smokers	Nonsmokers	Unknown
5–9	1,408	377	10
10–19	1,967	426	4
20–29	722	199	2
30–39	433	166	4
40–49	110	75	0
50+	33	22	0
Totals	4,673	1,265	20
Average length of employment	17.0	19.3	16.0

Percentage Distribution

Length of Employment	Smoker	Nonsmoker	Unknown
5–9	30.1	29.8	50.0
10–19	42.1	33.7	20.0
20–29	15.4	15.7	10.0
30–39	9.3	13.1	20.0
40–49	2.4	5.9	0.0
50+	0.7	1.8	0.0
Totals	100%	100%	100%

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