Table VI-4

Summary of Costs by Respirator Class

		Nonpowered Air-Purifying Respirators			Powered Air-Purifying Respirators			Supplied-Air Respirators			
SIC	Industry	Users [a]	No. Upgrading	Cost	Users [a]	No. Upgrading	Cost	Users [a,b]	No. Upgrading	Cost	Total Cost
07	Agricultural services	60,662	46	$43,030	139	7	$657	467	2	$81	$43,768
08	Forestry	996	0	$0	3	0	$0	16	0	$0	$0
09	Fishing, hunting, and trapping	0	0	$0	0	0	$0	0	0	$0	$0
13	Oil and gas extraction	27,781	6	$6,016	6,848	415	$50,887	666	12	$1,399	$58,302
15	General building contractors	122,350	15	$13,713	4,355	288	$30,519	5,846	80	$9,067	$53,300
16	Heavy construction, except building	70,768	17	$15,472	7,342	380	$38,426	6,719	90	$9,445	$63,344
17	Special trade contractors	663,282	296	$276,942	102,625	3,933	$428,165	86,591	1,007	$87,432	$792,539
20	Food and kindred products	60,330	58	$54,509	4,105	107	$12,643	2,600	60	$6,620	$73,772
21	Tobacco products	4,621	0	$0	271	0	$0	121	3	$125	$125
22	Textile mill products	38,704	15	$14,112	5,071	36	$4,153	164	4	$190	$18,455
23	Apparel and other textile products	5,984	0	$0	0	0	$0	0	0	$0	$0
24	Lumber and wood products	29,339	12	$11,535	3,178	102	$12,283	792	11	$535	$24,353
25	Furniture and fixtures	24,657	8	$7,703	844	15	$1,847	521	5	$387	$9,937
26	Paper and allied products	35,888	27	$25,382	2,086	73	$7,507	2,662	57	$2,853	$35,742
27	Printing and publishing	1,458	0	$0	0	0	$0	3	0	$0	$0
28	Chemicals and allied products	223,083	307	$287,588	18,791	238	$25,243	27,066	443	$22,139	$334,970
29	Petroleum and coal products	44,494	89	$83,367	5,207	35	$4,099	6,333	147	$8,052	$95,518
30	Rubber and misc. plastics products	41,711	25	$23,728	4,437	43	$5,152	6,253	84	$8,583	$37,463
31	Leather and leather products	108	0	$0	0	0	$0	340	11	$1,651	$1,651
32	Stone, clay, and glass products	57,815	23	$21,844	4,123	131	$13,691	1,648	5	$248	$35,783
33	Primary metal industries	100,933	38	$35,257	7,163	270	$27,951	7,061	80	$6,326	$69,534
34	Fabricated metal products	86,562	29	$27,435	8,885	152	$15,766	12,536	93	$8,955	$52,156
35	Industrial machinery and equipment	62,459	43	$40,196	5,501	38	$4,362	8,549	51	$4,156	$48,714
36	Electronic and other electric equipment	59,497	46	$42,968	2,967	99	$11,927	5,419	109	$6,441	$61,337
37	Transportation equipment	148,719	81	$76,217	9,511	125	$14,084	18,614	241	$24,308	$114,609
38	Instruments and related products	34,208	39	$36,953	2,412	17	$2,073	4,737	50	$3,320	$42,345
39	Miscellaneous manufacturing industries	36,285	10	$9,653	10,640	539	$64,860	2,161	22	$1,915	$76,427
40	Railroad transportation	141,472	12	$11,280	1,267	52	$5,395	1,215	27	$2,722	$19,397
41	Local and interurban passenger transit	8,327	0	$0	1,086	86	$8,330	168	2	$124	$8,453
42	Trucking and warehousing	43,611	22	$21,069	6,492	326	$39,424	5,832	104	$9,349	$69,843
43	United States Postal Service	10,789	6	$5,212	1,606	80	$9,677	1,443	25	$2,204	$17,093
44	Water transportation	21,707	0	$0	21,490	2,368	$290,046	64	1	$197	$290,243
45	Transportation by air	10,328	10	$9,417	17	0	$0	12,008	225	$11,267	$20,684
46	Pipelines, except natural gas	747	0	$0	237	3	$312	80	1	$58	$369
47	Transportation services	240	0	$0	2	0	$0	8	0	$0	$0
48	Communications	3,229	0	$0	37	0	$0	18	0	$0	$0
49	Electric, gas, and sanitary services	120,711	103	$96,504	7,545	65	$7,532	14,630	249	$15,425	$119,461
50	Wholesale trade--durable goods	75,206	92	$86,246	5,430	52	$6,040	5,217	107	$8,545	$100,831
51	Wholesale trade--nondurable goods	139,508	76	$70,757	16,524	1,788	$164,785	15,428	38	$4,140	$239,682
52	Building materials and garden supplies	46,382	4	$3,347	852	19	$1,842	89	3	$494	$5,683
53	General merchandise stores	2,206	0	$0	1,111	32	$2,935	0	0	$0	$2,935
54	Food stores	5,698	0	$0	854	19	$1,848	0	0	$0	$1,848
55	Automotive dealers and service stations	141,690	20	$18,860	21,635	177	$19,874	17,645	435	$21,720	$60,454

Table VI-4

Summary of Costs by Respirator Class

		Nonpowered Air-Purifying Respirators			Powered Air-Purifying Respirators			Supplied-Air Respirators			
SIC	Industry	Users [a]	No. Upgrading	Cost	Users [a]	No. Upgrading	Cost	Users [a,b]	No. Upgrading	Cost	Total Cost
56	Apparel and accessory stores	1,297	0	$0	110	1	$105	1,442	56	$8,561	$8,667
57	Furniture and homefurnishings stores	8,078	0	$0	2,989	71	$7,253	0	0	$0	$7,253
58	Eating and drinking places	0	0	$0	0	0	$0	0	0	$0	$0
59	Miscellaneous retail	9,378	0	$0	349	7	$699	0	0	$0	$699
60	Depository institutions	3,782	0	$0	57	0	$0	0	0	$0	$0
61	Nondepository institutions	545	0	$0	1	0	$0	0	0	$0	$0
62	Security and commodity brokers	508	0	$0	1	0	$0	0	0	$0	$0
63	Insurance carriers	1,835	0	$0	2	0	$0	0	0	$0	$0
64	Insurance agents, brokers, and service	1,357	0	$0	3	0	$0	0	0	$0	$0
65	Real estate	16,139	0	$0	7	0	$0	0	0	$0	$0
67	Holding and other investment offices	766	0	$0	0	0	$0	0	0	$0	$0
70	Hotels and other lodging places	93,949	26	$24,531	21	0	$0	0	0	$0	$24,531
72	Personal services	42,084	20	$18,497	188	0	$0	0	0	$0	$18,497
73	Business services	148,761	40	$37,651	261	0	$0	119	3	$132	$37,783
75	Auto repair, services, and parking	188,241	25	$23,471	28,435	1,308	$141,436	27,832	815	$91,407	$256,314
76	Miscellaneous repair services	47,952	10	$9,293	464	0	$0	4,730	179	$25,988	$35,281
78	Motion pictures	1,752	0	$0	0	0	$0	2	0	$0	$0
79	Amusement and recreation services	25,782	6	$5,592	26	0	$0	0	0	$0	$5,592
80	Health services	825,213	105	$98,238	78,349	8,094	$740,937	1,355	14	$691	$839,865
81	Legal services	6,414	1	$1,363	0	0	$0	3	0	$0	$1,363
82	Educational services	40,347	14	$12,652	226	0	$0	0	0	$0	$12,652
83	Social services	14,809	3	$2,778	129	0	$0	0	0	$0	$2,778
84	Museums, botanical, zoological gardens	5,450	0	$0	4	0	$0	2	0	$0	$0
86	Membership organizations	2,638	0	$0	9	0	$0	0	0	$0	$0
87	Engineering and management services	131,731	32	$29,919	12,085	734	$67,171	1,114	28	$1,399	$98,488
89	Services, n.e.c.	1,643	0	$0	0	0	$0	3	0	$0	$0
	State and local governments	105,131	60	$56,002	10,094	525	$53,472	7,568	133	10,662	$120,137
	Totals	4,540,123	1,918	$1,796,299	436,498	22,848	$2,345,407	325,898	5,110	$429,315	$4,571,022

Source: OSHA estimates based on preliminary results from the 2001 NIOSH/BLS Survey of Respirator Use and Practices, in press.
[a] Includes users who use more than one type of respirator. For this reason, some respirator users may be double counted, and the totals may exceed the number of users for the respirator class.
[b] Excludes employees exclusively using SCBAs.