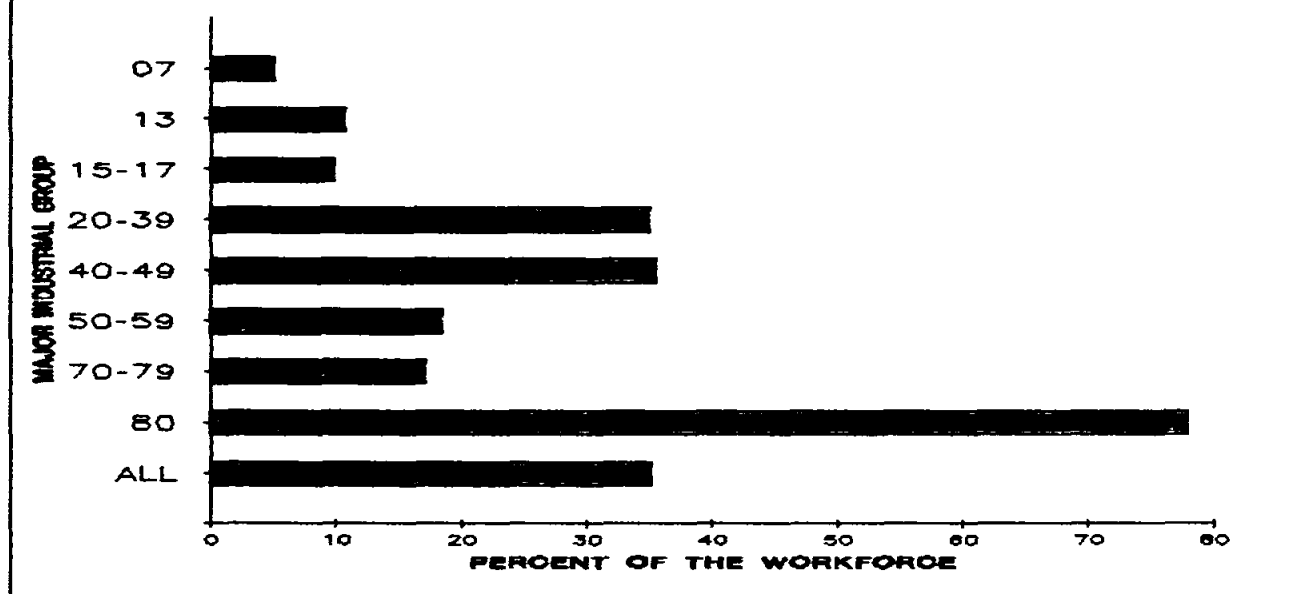


**(3) Response 1, 2, 3, 4, or 5 - Provision of urine tests**

**The estimated proportions of plants and workers in those plants corresponding to each of the five possible responses to the urine test inquiry are presented in Figure III-70.**

**Figure III-70 Provision of urine tests**

**FIGURE III - 66**  
**URINE TESTS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-57

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
 PROVIDE URINE TESTS TO ALL OR SELECTED WORKERS

MAJOR GROUP	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	457* (221) 5.3%	187* (106) 18.4%	...	644* (200) 6.7%	15855* (7035) 7.6%	29206* (16103) 16.8%	...	45061* (14586) 10.9%
15-17	2715 (603) 2.9%	677* (235) 16.3%	118* (112) 48.7%	3510 (646) 3.6%	76891* (20093) 3.7%	113155* (37457) 15.4%	114159* (80672) 48.4%	304205* (87431) 9.9%
20-39	10770 (1829) 7.0%	5645 (583) 17.8%	3187 (194) 50.8%	19602 (1865) 10.2%	378958 (58053) 8.2%	1193197 (145207) 18.7%	5211483 (300090) 63.1%	6783638 (386858) 35.2%
40-49	14568 (1847) 27.4%	2126 (393) 36.4%	182* (53) 38.8%	16876 (1986) 28.4%	398856 (55076) 27.8%	435135 (88927) 37.7%	294111* (84214) 51.3%	1128102 (143708) 35.7%
50-59	8134 (1207) 13.9%	569* (302) 21.4%	...	8704 (1173) 14.3%	189299 (31377) 16.8%	97300* (52795) 23.8%	...	286599 (56886) 18.7%
70-79	3638* (1330) 5.0%	323* (111) 13.8%	177* (109) 50.0%	4138* (1316) 5.5%	86216* (30493) 6.2%	89938* (24855) 19.4%	203994* (100787) 60.1%	380148* (105782) 17.3%
80	1057* (467) 37.2%	1325 (267) 61.2%	1622 (214) 78.7%	4004 (606) 56.7%	37131* (12204) 36.5%	342297 (74498) 64.0%	2476477 (290267) 81.9%	2855905 (288810) 78.1%
ALL	41482 (3260) 9.2%	10853 (858) 21.7%	5286 (333) 56.0%	57621 (3372) 11.3%	1188964 (94607) 10.7%	2300228 (199024) 23.3%	8300225 (445047) 66.6%	11789416 (525391) 35.3%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

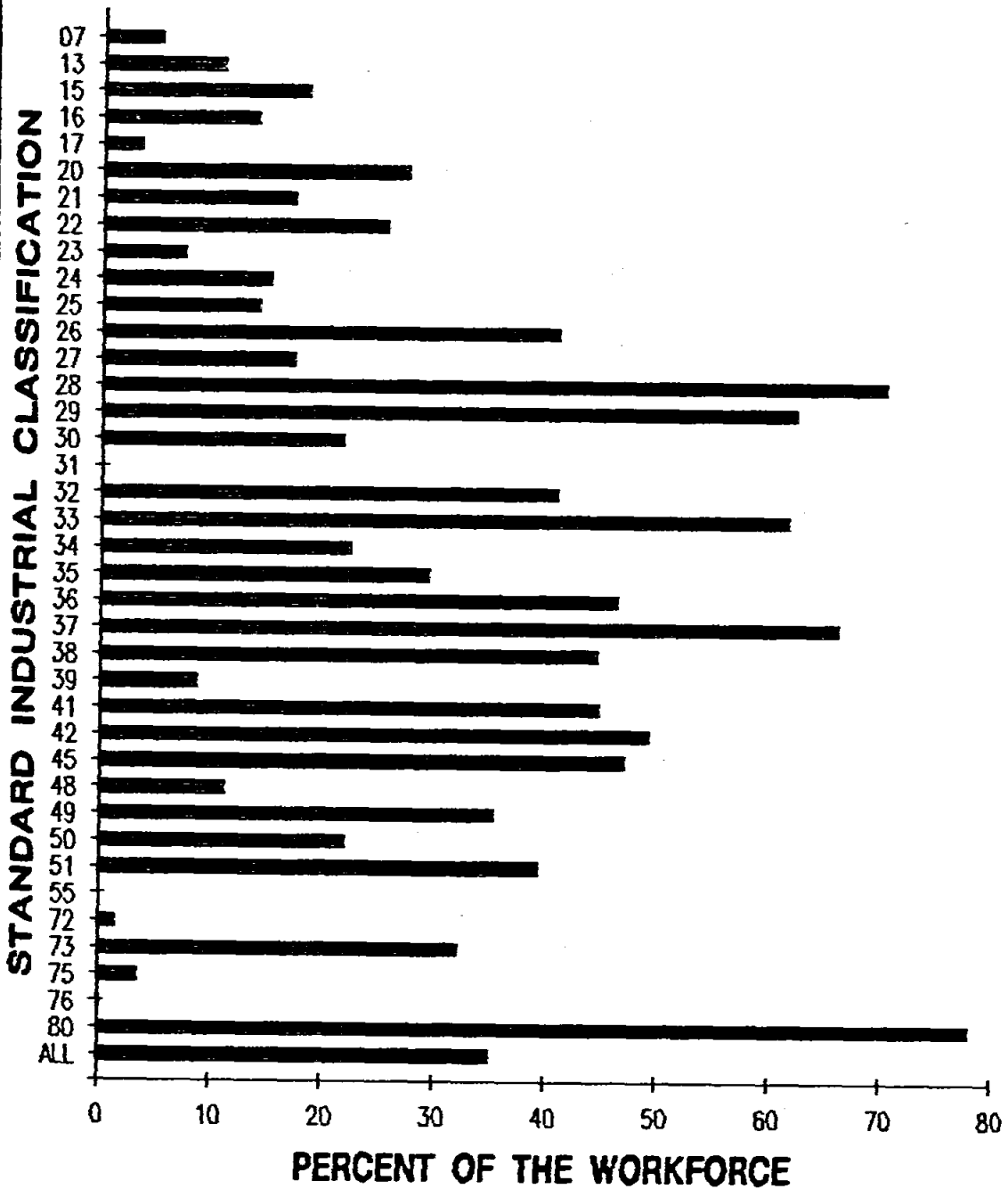
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE URINE TESTS TO ALL OR SELECTED WORKERS

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	457* (221) 5.3%	187* (106) 18.4%	...	644* (200) 6.7%	15855* (7035) 7.6%	29206* (16103) 16.8%	...	45061* (14586) 10.9%
15	564* (396) 2.3%	451* (205) 40.7%	67* (93) 49.8%	1082* (453) 4.1%	10427* (7521) 1.9%	83811* (33788) 42.3%	72404* (63356) 53.7%	166641* (68940) 18.6%
16	1083* (476) 9.6%	103* (73) 9.2%	51* (56) 47.4%	1236* (499) 9.9%	25781* (10182) 9.1%	14975* (10754) 7.2%	41755* (44854) 41.2%	82511* (46441) 13.9%
17	1068* (477) 1.8%	123* (106) 6.4%	...	1191* (473) 2.0%	40683* (18821) 3.2%	14369* (12505) 4.3%	...	55053* (21789) 3.5%
20	1509* (408) 13.2%	833* (233) 25.9%	196* (85) 35.0%	2537* (459) 16.7%	63161* (17655) 16.3%	183280* (65741) 27.2%	180641* (80638) 36.7%	427082* (77755) 27.5%
21	4* (6) 14.6%	...	14* (28) 17.5%	18* (25) 16.7%	258* (345) 13.8%	...	19407* (32122) 17.3%	19665* (31898) 17.3%
22	...	242* (104) 15.2%	168* (73) 56.0%	409* (170) 8.5%	...	70180* (27010) 20.2%	112745* (49304) 43.2%	182925* (71829) 25.6%
23	233* (163) 1.9%	33* (35) 1.1%	58* (43) 24.1%	325* (155) 2.0%	6591* (4374) 1.6%	9429* (9805) 1.5%	76627* (48463) 36.8%	92647* (47738) 7.5%
24	358* (229) 3.3%	269* (155) 23.5%	12* (10) 11.5%	640* (280) 5.3%	19435* (13438) 6.4%	40835* (24131) 22.2%	27621* (22969) 29.9%	87891* (36641) 15.2%
25	124* (123) 3.0%	209* (106) 19.7%	3* (4) 2.7%	336* (194) 6.3%	3596* (3575) 2.6%	49310* (27700) 19.2%	20917* (22806) 17.0%	73823* (37887) 14.2%
26	301* (190) 7.3%	290* (120) 18.5%	191* (66) 89.1%	782* (252) 13.3%	17298* (12395) 12.6%	49119* (18577) 17.5%	190997* (60232) 92.3%	257413* (64321) 41.1%
27	1078* (412) 6.0%	137* (61) 7.3%	151* (65) 47.9%	1367* (399) 6.7%	26881* (7628) 5.6%	24443* (14534) 6.8%	154960* (52769) 44.8%	206284* (51700) 17.4%
28	1534 (371) 24.8%	738 (137) 63.6%	317 (57) 83.3%	2588 (426) 33.6%	58191 (8919) 32.2%	191044 (33014) 73.2%	396664 (80653) 83.3%	645899 (86699) 70.4%
29	...	117* (124) 40.1%	101* (42) 100.0%	219* (139) 15.6%	...	20684* (16579) 32.7%	117545* (70259) 100.0%	138229* (75230) 62.3%
30	81* (64) 1.2%	219* (122) 14.2%	116* (66) 51.8%	416* (164) 4.9%	4610* (3658) 2.0%	45837* (25450) 15.6%	113639* (64945) 48.6%	164086* (67943) 21.8%
31	...	...	...	...	...	...	...	...
32	1047* (431) 11.9%	322* (118) 31.8%	180* (73) 98.0%	1550* (442) 15.5%	36386* (12687) 15.3%	73896* (32030) 35.4%	125386* (51033) 97.2%	235668* (59146) 41.0%
33	627* (253) 15.2%	526* (176) 35.9%	269 (59) 80.0%	1422 (342) 23.9%	28484* (11121) 20.6%	105764* (35081) 34.0%	528137 (82983) 85.0%	662385 (98234) 61.8%

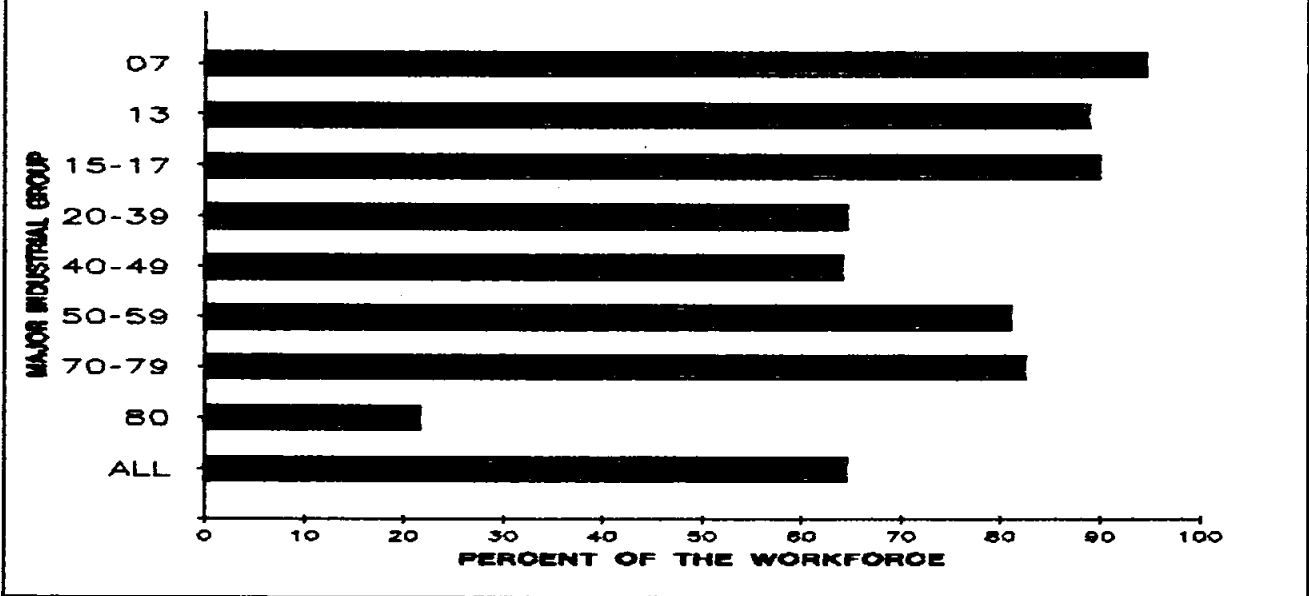
SIC CODE					EMPLOYEES			
	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	2342* (636) 12.6%	410* (114) 13.1%	205* (82) 59.1%	2957 (626) 13.4%	57510* (15156) 10.4%	70238* (21511) 11.8%	210283* (104911) 59.9%	338031* (109276) 22.5%
35	366* (207) 1.6%	580* (176) 17.0%	291 (64) 37.1%	1236 (301) 4.6%	10679* (5197) 1.8%	108183* (32518) 16.4%	586317 (97183) 52.7%	705179 (103235) 29.6%
36	377* (340) 5.3%	399* (132) 14.9%	413 (99) 52.5%	1189* (390) 11.2%	6285* (5098) 2.7%	86785* (32169) 15.7%	820615 (174783) 69.4%	913685 (184717) 46.5%
37	345* (272) 8.7%	70* (45) 5.9%	279* (87) 67.1%	695* (291) 12.4%	23123* (18276) 18.2%	19198* (13329) 8.0%	1204233 (278281) 79.5%	1246554 (277648) 66.3%
38	146* (89) 5.4%	158* (68) 16.6%	214* (84) 51.4%	518* (153) 12.8%	8072* (5862) 7.7%	26742* (13938) 13.8%	305283* (113490) 66.3%	340097* (111831) 44.8%
39	298* (197) 4.5%	92* (183) 11.5%	10* (10) 3.0%	399* (269) 5.2%	8399* (5825) 5.1%	18231* (32526) 12.2%	19466* (18968) 9.3%	46096* (36387) 8.8%
41	1398* (388) 31.6%	232* (165) 45.5%	...	1630* (433) 33.1%	42268* (13908) 35.9%	47092* (39241) 57.8%	...	89360* (40815) 44.9%
42	9396 (1285) 46.9%	840* (234) 56.7%	35* (34) 42.2%	10270 (1348) 47.6%	238033 (33376) 48.8%	146047* (37570) 56.4%	21944* (14011) 29.3%	406024 (47503) 49.4%
45	683* (551) 21.1%	...	90* (36) 61.2%	773* (552) 19.4%	22623* (15924) 29.2%	...	190241* (82889) 72.0%	212864* (84963) 47.2%
48	877* (732) 6.0%	88* (81) 9.7%	19* (16) 56.8%	984* (728) 6.3%	20926* (15412) 4.9%	18455* (17704) 10.5%	37029* (29526) 52.8%	76411* (45675) 11.4%
49	1577* (821) 19.2%	763* (275) 41.0%	38* (33) 21.8%	2378* (890) 23.2%	63493* (34164) 23.6%	189897* (73060) 44.6%	44896* (40405) 30.6%	298286* (99573) 35.5%
50	4827 (1183) 15.9%	332* (201) 18.4%	...	5159 (1157) 16.0%	132493* (33132) 21.0%	70288* (48460) 24.8%	...	202781* (58604) 22.2%
51	3307 (693) 36.3%	237* (237) 100.0%	...	3544 (786) 37.9%	56806* (14420) 30.7%	27013* (27013) 100.0%	...	83818* (34843) 39.5%
55	...	...	...	...	...	...	...	...
72	216* (241) 1.0%	...	...	216* (241) 1.0%	8211* (9165) 2.2%	...	...	8211* (9165) 1.7%
73	2441* (1051) 14.7%	323* (111) 21.7%	177* (109) 51.9%	2942* (1033) 16.0%	62318* (27445) 14.8%	89938* (24855) 25.7%	203994* (100787) 62.0%	356250* (107286) 32.4%
75	971* (746) 3.7%	...	...	971* (746) 3.7%	15203* (12925) 3.7%	...	...	15203* (12925) 3.6%
76	9* (8) .1%	...	...	9* (8) .1%	483* (423) .3%	...	...	483* (423) .2%
80	1057* (467) 37.2%	1325 (267) 61.2%	1622 (214) 78.7%	4004 (606) 56.7%	37131* (12204) 36.5%	342297 (74498) 64.0%	2476477 (290267) 81.9%	2855905 (288810) 78.1%
All	40845 (3381) 9.1%	10650 (815) 21.5%	5286 (321) 56.1%	56781 (3572) 11.2%	1177451 (92511) 10.7%	2266584 (169137) 23.2%	8300225 (438530) 66.6%	11744260 (484030) 35.3%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

**FIGURE III - 67**  
**URINE TESTS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NCEES 1981-1983)**



**FIGURE III - 68**  
**URINE TESTS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
**(NOES 1981-1983)**



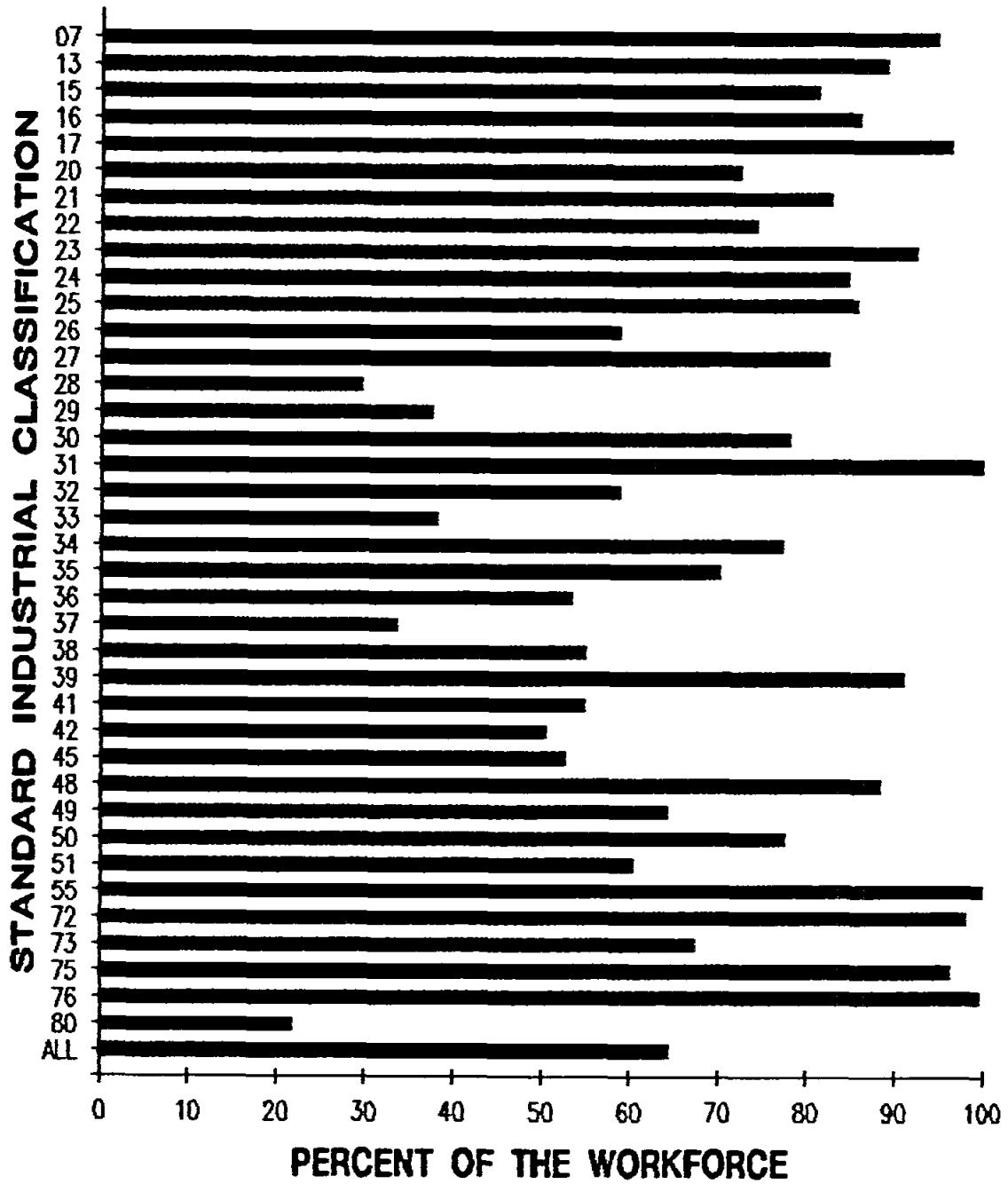
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-59

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO URINE TESTS OR EXAMINE MANAGEMENT ONLY

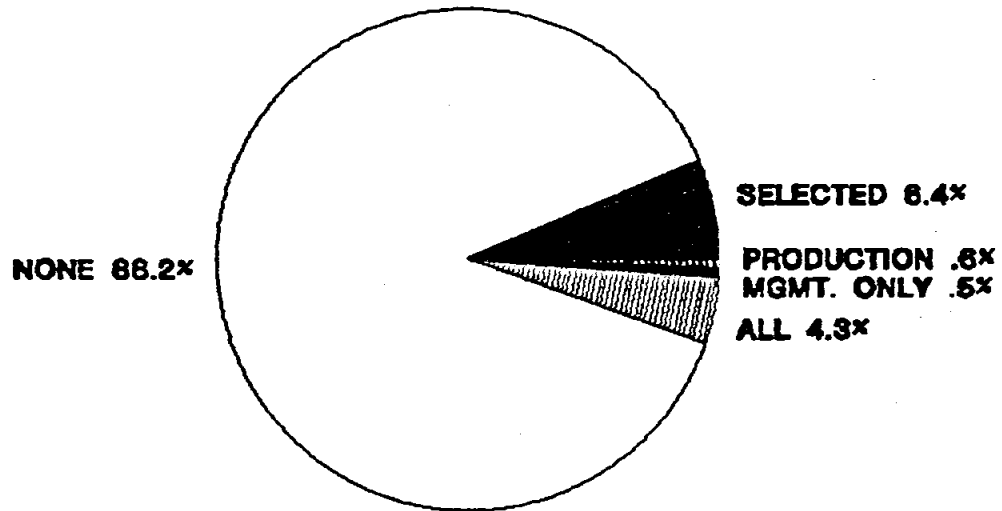
MAJOR GROUP	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8141 (1876) 94.7%	832* (305) 81.6%	46* (52) 100.0%	9018 (2052) 93.3%	193103 (40048) 92.4%	144737* (56603) 83.2%	31383* (35291) 100.0%	369222* (99133) 89.1%
15-17	91617 (2403) 97.1%	3468 (469) 83.7%	124* (62) 51.4%	95210 (2478) 96.4%	2022002 (25145) 96.3%	623944 (101544) 84.6%	121898* (51199) 51.6%	2767844 (107168) 90.1%
20-39	142472 (3156) 93.0%	26109 (1845) 82.2%	3082 (198) 49.2%	171664 (4035) 89.8%	4236737 (75603) 91.8%	5187617 (340757) 81.3%	3053837 (203243) 36.9%	12478190 (447331) 64.8%
40-49	38584 (2412) 72.6%	3718 (824) 63.6%	287* (112) 61.2%	42588 (2684) 71.6%	1035013 (84810) 72.2%	718179* (182300) 62.3%	279632* (86681) 48.7%	2032824 (226486) 64.3%
50-59	50258 (3654) 86.1%	2089* (620) 78.6%	...	52347 (3836) 85.7%	935075 (78334) 83.2%	311526* (94256) 76.2%	...	1246602 (133144) 81.3%
70-79	69496 (4210) 95.0%	2023 (334) 86.2%	177* (84) 50.0%	71696 (4159) 94.5%	1306958 (82124) 93.8%	374574 (60295) 80.6%	135566* (62067) 39.9%	1817099 (100331) 82.7%
80	1782* (620) 62.8%	842* (215) 38.9%	439* (154) 21.3%	3063 (597) 43.3%	64513* (18744) 63.5%	192188 (45712) 36.0%	546198* (168706) 18.1%	802899 (160937) 21.9%
ALL	407770 (7675) 90.8%	39150 (2224) 78.3%	4156 (299) 44.0%	451076 (8280) 88.7%	9891326 (171031) 89.3%	7559774 (421329) 76.7%	4168515 (291552) 33.4%	21619615 (572072) 64.7%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

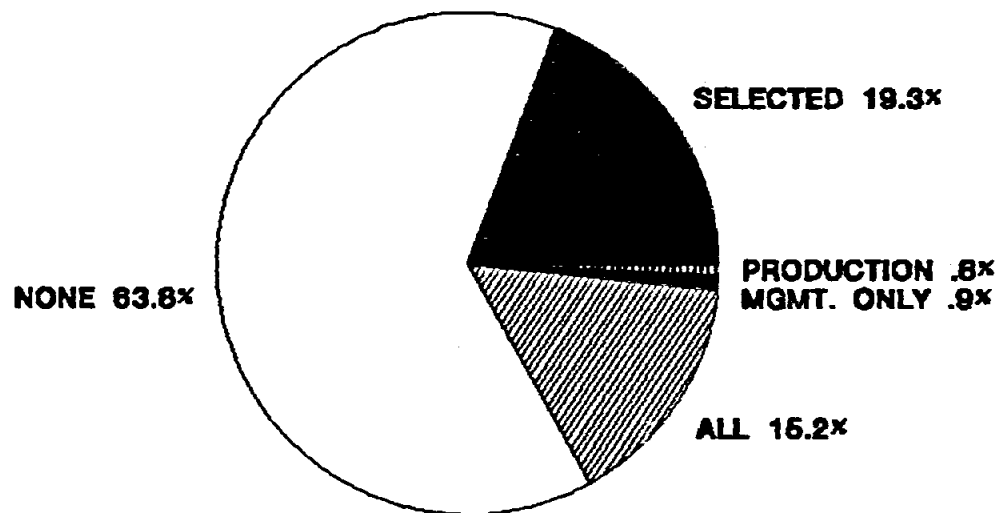
**FIGURE III - 69**  
**URINE TESTS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
 (NOES 1981-1983)



**FIGURE III - 70**  
**PROVISION OF URINE TESTS**  
**(NOES 1981-1983)**



**PLANTS**



**WORKERS**



NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-60

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO URINE TESTS OR EXAMINE MANAGEMENT ONLY

SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8141 (1876) 94.7%	832* (305) 81.6%	46* (52) 100.0%	9018 (2052) 93.3%	193103 (40048) 92.4%	144737* (56603) 83.2%	31383* (35291) 100.0%	369222* (99133) 89.1%
15	24352 (1678) 97.7%	656* (167) 59.3%	68* (30) 50.3%	25076 (1671) 95.9%	552462 (43062) 98.1%	114407 (28372) 57.7%	62395* (30350) 46.3%	729264 (60194) 81.4%
16	10201 (1500) 90.4%	1016 (189) 90.8%	57* (51) 52.9%	11274 (1503) 90.1%	258309 (45541) 90.9%	192784 (41809) 92.8%	59503* (39236) 58.8%	510595 (82579) 86.1%
17	57064 (1669) 98.2%	1795 (411) 93.6%	...	58860 (1775) 98.0%	1211232 (31073) 96.8%	316753* (81615) 95.7%	...	1527985 (92449) 96.5%
20	9904 (721) 86.8%	2383 (333) 74.1%	364 (80) 65.1%	12650 (866) 83.3%	325277 (18315) 83.7%	490500 (76363) 72.8%	311134 (68022) 63.3%	1126911 (106283) 72.5%
21	26* (42) 86.5%	...	65* (47) 82.0%	91* (58) 83.3%	1608* (2605) 86.2%	...	92726* (63929) 82.7%	94334* (63432) 82.8%
22	2932 (393) 100.0%	1347 (152) 84.8%	131* (76) 43.9%	4410 (368) 91.5%	106032 (5745) 100.0%	276893 (30076) 79.8%	148348* (95315) 56.8%	531273 (100404) 74.4%
23	12280 (840) 98.1%	3069 (165) 98.9%	184* (75) 76.0%	15533 (858) 98.0%	417313 (8341) 98.4%	600493 (30442) 98.5%	131810* (60544) 63.2%	1149616 (62372) 92.5%
24	10353 (702) 96.7%	878 (154) 76.5%	92* (75) 88.7%	11324 (788) 94.7%	284212 (26693) 93.6%	142750 (28483) 77.8%	64733* (51314) 70.1%	491695 (82455) 84.8%
25	4040 (509) 97.0%	853 (155) 80.3%	115* (75) 96.9%	5008 (514) 93.7%	135513 (19904) 97.4%	207132 (42752) 80.8%	102081* (64610) 83.0%	444726 (81204) 85.8%
26	3812 (735) 92.7%	1278 (251) 81.5%	24* (21) 11.0%	5114 (753) 86.7%	120356 (15625) 87.4%	232357 (49612) 82.5%	15867* (14033) 7.7%	368581 (51170) 58.9%
27	17039 (1152) 94.0%	1736 (182) 92.7%	165* (68) 52.3%	18941 (1123) 93.3%	451251 (14340) 94.4%	336459 (49573) 93.2%	190791* (55574) 55.2%	978500 (90325) 82.6%
28	4639 (427) 75.2%	423* (137) 36.4%	63* (43) 16.6%	5125 (430) 66.4%	122548 (9566) 67.8%	69787* (23703) 26.8%	79677* (78104) 16.7%	272012* (75286) 29.6%
29	1011* (404) 100.0%	176* (71) 60.0%	...	1187* (404) 84.5%	40980* (17325) 100.0%	42572* (18214) 67.3%	...	83552* (23984) 37.7%
30	6630 (1144) 98.8%	1318* (470) 85.8%	108* (45) 48.1%	8056 (1347) 95.1%	220394 (27114) 98.0%	248693* (97991) 84.4%	120008* (47195) 51.4%	589095 (102586) 78.2%
31	931* (343) 100.0%	569 (131) 100.0%	25* (24) 100.0%	1525 (372) 100.0%	24888* (7207) 100.0%	135459* (34334) 100.0%	15664* (16901) 100.0%	176011 (38675) 100.0%
32	7751 (1198) 88.1%	690 (155) 68.2%	3* (1) 1.9%	8445 (1238) 84.5%	200774 (18904) 84.7%	135088 (32660) 64.6%	3607* (11505) 2.8%	339469 (39729) 59.0%
33	3508 (552) 84.9%	942 (222) 64.2%	68* (32) 20.0%	4517 (624) 76.1%	109984 (16958) 79.4%	205317 (45552) 66.0%	93362* (30894) 15.0%	408663 (61091) 38.2%

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	16178 (1180) 87.4%	2712 (200) 86.9%	141* (47) 40.7%	19031 (1140) 86.6%	497375 (19438) 89.6%	526446 (33795) 88.2%	140773* (38541) 40.1%	1164594 (49082) 77.5%
35	22285 (1071) 98.4%	2825 (205) 83.0%	493 (65) 62.9%	25603 (1079) 95.4%	596121 (9323) 98.2%	552937 (32517) 83.6%	526616 (88035) 47.3%	1675674 (100408) 70.4%
36	6727 (488) 94.7%	2286 (190) 85.1%	374* (141) 47.6%	9387 (487) 88.8%	224204 (11280) 97.3%	465877 (32216) 84.3%	361847* (116045) 30.6%	1051928 (117747) 53.5%
37	3628 (834) 91.3%	1120 (113) 94.1%	137* (52) 32.8%	4885 (797) 87.6%	103899 (17806) 81.8%	219986 (30290) 92.0%	309775* (103066) 20.5%	633660 (100862) 33.7%
38	2543 (520) 94.6%	798 (101) 83.4%	202* (114) 48.6%	3544 (583) 87.2%	96530 (13761) 92.3%	167651 (25785) 86.2%	155114* (89470) 33.7%	419295 (94338) 55.2%
39	6256 (568) 95.5%	706* (1323) 88.5%	328* (217) 97.0%	7290 (1382) 94.8%	157478 (13498) 94.9%	131218* (248135) 87.8%	189904* (119941) 90.7%	478600* (241914) 91.2%
41	3022* (882) 68.4%	278* (153) 54.5%	...	3300* (921) 66.9%	75364* (20674) 64.1%	34450* (18652) 42.2%	...	109814* (32387) 55.1%
42	10631 (1564) 53.1%	642* (208) 43.3%	47* (36) 57.3%	11320 (1612) 52.4%	249770 (39486) 51.2%	112775* (34650) 43.6%	52886* (44449) 70.7%	415430 (58314) 50.6%
45	2559* (806) 78.9%	590* (397) 99.9%	58* (38) 39.1%	3206* (992) 80.6%	54874 (12236) 70.8%	109332* (75829) 100.0%	74014* (40123) 28.0%	238219* (84878) 52.8%
48	13825 (2112) 94.0%	814 (168) 90.2%	14* (12) 42.3%	14653 (2165) 93.7%	404832 (82074) 95.1%	157867 (37866) 89.5%	33054* (28615) 47.2%	595752 (91679) 88.6%
49	6638 (1645) 80.8%	1099* (417) 59.0%	135* (98) 78.0%	7872 (1812) 76.8%	205877 (47849) 76.4%	235573* (121399) 55.4%	101669* (59437) 69.4%	543118* (144204) 64.5%
50	25522 (2374) 84.1%	1470* (450) 81.6%	...	26992 (2449) 84.0%	497811 (60101) 79.0%	212951* (64370) 75.2%	...	710763 (101336) 77.8%
51	5807 (1019) 63.7%	...	...	5807 (1019) 62.1%	128219* (36716) 69.3%	...	...	128219* (36716) 60.5%
55	18928 (3032) 100.0%	620* (491) 99.9%	...	19548 (3239) 100.0%	309045 (54796) 100.0%	98575* (80174) 100.0%	...	407620* (110347) 100.0%
72	20413 (2485) 99.0%	675* (190) 100.0%	13* (19) 100.0%	21102 (2536) 99.0%	371808 (52648) 97.8%	82220* (24190) 100.0%	10670* (15114) 100.0%	464699 (65026) 98.3%
73	14133 (1792) 85.3%	1165 (227) 78.3%	164* (77) 48.0%	15462 (1686) 84.0%	359130 (42409) 85.2%	259775 (47297) 74.3%	124896* (57152) 38.0%	743800 (70187) 67.6%
75	25208 (3771) 96.3%	59* (60) 99.7%	...	25267 (3776) 96.3%	398072 (59596) 96.3%	8238* (8380) 100.0%	...	406310 (60009) 96.4%
76	9742 (2197) 99.9%	123* (94) 100.0%	...	9865 (2218) 99.9%	177949 (29886) 99.7%	24341* (19716) 100.0%	...	202290 (40598) 99.8%
80	1782* (620) 62.8%	842* (215) 38.9%	439* (154) 21.3%	3063 (597) 43.3%	64513* (18744) 63.5%	192188 (45712) 36.0%	546198* (168706) 18.1%	802899 (160937) 21.9%
A11	405860 (7222) 90.9%	38903 (813) 78.5%	4139 (282) 43.9%	448902 (7207) 88.8%	9847029 (107310) 89.3%	7507197 (148302) 76.8%	4159509 (316647) 33.4%	21513736 (345326) 64.7%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

**Analysis of Pulmonary Function Testing**

(see text on questionnaire item 22 for definitions and notes)

This sub-item was displayed on the questionnaire as:

Pulmonary function	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
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(Note: Response categories are as shown in the display of question 22.)

Three analyses of the responses to the pulmonary function sub-item are presented.

- (1) Response 2, 4, or 5 - Provision of pulmonary function tests to all, production, or selected workers

The estimates of the plants which provide pulmonary function testing to all workers, production workers, or selected workers, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-71 and III-72, and Tables III-61 and III-62.

Figure III-71	Pulmonary tests provided to all or selected workers (by major industrial group)
Figure III-72	Pulmonary tests provided to all or selected workers (by 2-digit SIC)
Table III-61	Number and percent of plants and employees in plants which provide pulmonary tests to all or selected workers (by major industry group)
Table III-62	Number and percent of plants and employees in plants which provide pulmonary tests to all or selected workers (by 2-digit SIC)

- (2) Response 1 or 3 - No provision of pulmonary function tests, or testing of management personnel only

The estimates of plants which either do not provide any pulmonary function tests or provide them only to management personnel, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-73 and III-74, and Tables III-63 and III-64.

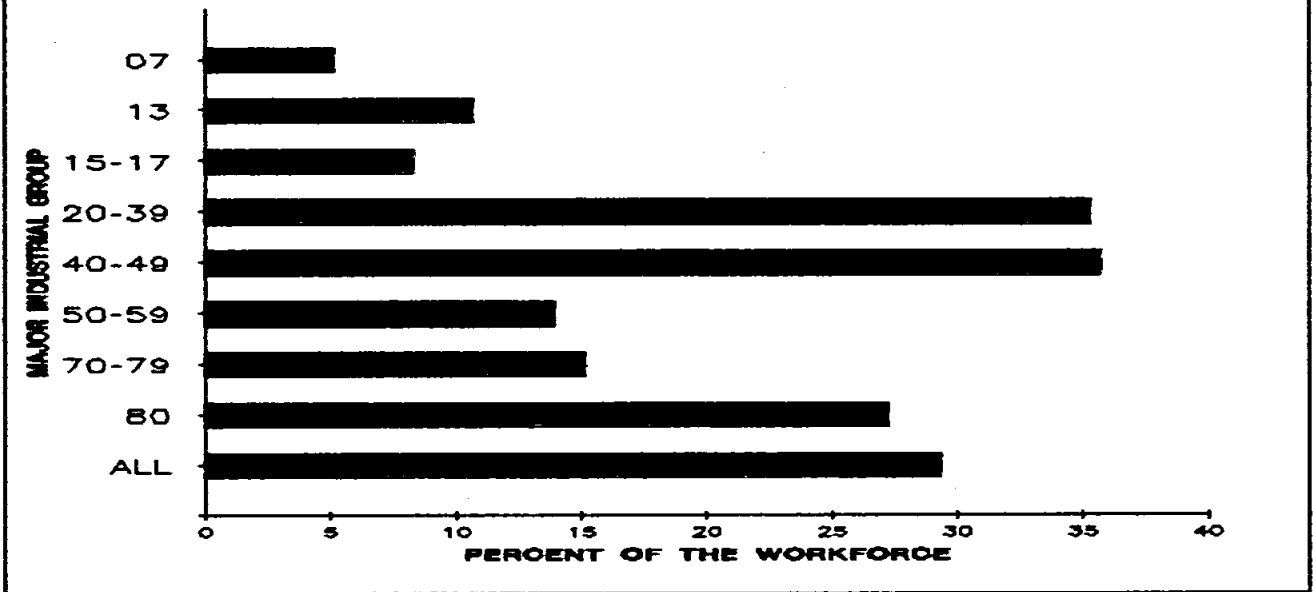
Figure III-73	Pulmonary tests not provided or for management only (by major industrial group)
Figure III-74	Pulmonary tests not provided or for management only (by 2-digit SIC)
Table III-63	Number and percent of plants and employees in plants which provide no pulmonary tests or examine management only (by major industrial group)
Table III-64	Number and percent of plants and employees in plants which provide no pulmonary tests or examine management only (by 2-digit SIC)

**(3) Response 1, 2, 3, 4, or 5 - Provision of pulmonary function tests**

**The estimated proportions of plants and workers in those plants corresponding to each of the five possible responses to the pulmonary function inquiry are presented in Figure III-75.**

**Figure III-75 Provision of pulmonary tests**

**FIGURE III - 71**  
**PULMONARY TESTS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



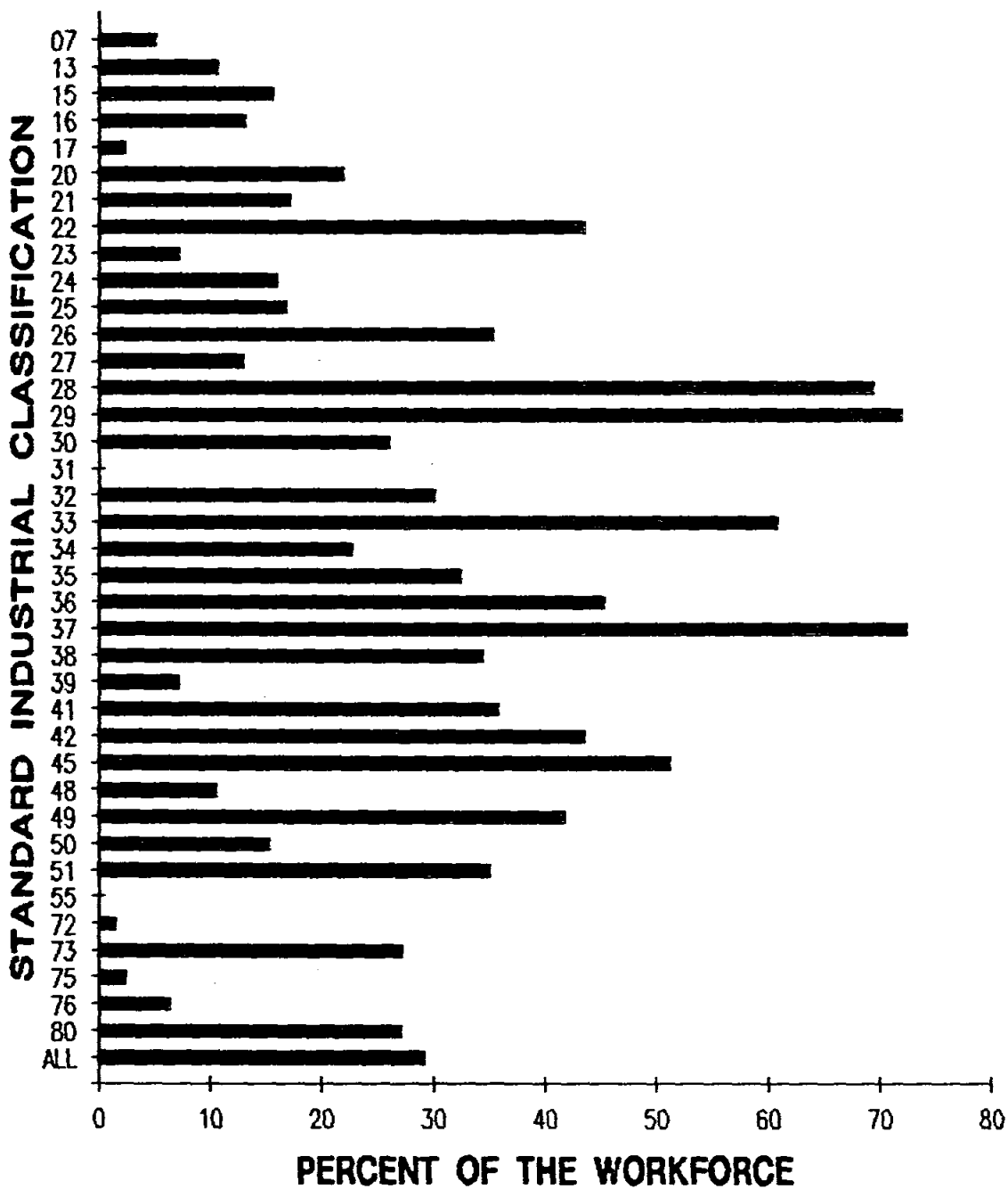
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-61

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
 PROVIDE PULMONARY TESTS TO ALL OR SELECTED WORKERS

MAJOR GROUP	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	269* (159) 3.1%	...	46* (52) 100.0%	316* (159) 3.3%	13234* (7284) 6.3%	...	31383* (35291) 100.0%	44616* (33862) 10.8%
15-17	1960 (467) 2.1%	568* (227) 13.7%	117* (110) 48.2%	2644 (577) 2.7%	46308 (10783) 2.2%	87626* (30704) 11.9%	125485* (82018) 53.2%	259419* (90333) 8.4%
20-39	10117 (1705) 6.6%	5374 (699) 16.9%	2977 (193) 47.5%	18468 (1892) 9.7%	392833 (57108) 8.5%	1169273 (158189) 18.3%	5261481 (276940) 63.7%	6823587 (391312) 35.4%
40-49	10949 (1938) 20.6%	2038 (393) 34.9%	268* (104) 57.3%	13255 (2091) 22.3%	317242 (57474) 22.1%	413594 (87965) 35.9%	401567 (89624) 70.0%	1132403 (158870) 35.8%
50-59	5679 (1178) 9.7%	404* (252) 15.2%	...	6083 (1170) 10.0%	137933 (26847) 12.3%	77167* (43219) 18.9%	...	215101 (48466) 14.0%
70-79	1580* (887) 2.2%	305* (109) 13.0%	172* (112) 48.6%	2057* (894) 2.7%	46778* (24164) 3.4%	86045* (27239) 18.5%	200873* (102687) 59.2%	333697* (102663) 15.2%
80	95* (74) 3.3%	244* (85) 11.3%	631 (131) 30.6%	970 (118) 13.7%	4724* (3644) 4.6%	54636* (22591) 10.2%	940213 (180997) 31.1%	999573 (173055) 27.3%
ALL	30792 (3018) 6.9%	8932 (881) 17.9%	4211 (304) 44.6%	43936 (3242) 8.6%	964810 (89901) 8.7%	1888342 (191897) 19.2%	6961001 (368788) 55.8%	9814154 (480145) 29.4%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

**FIGURE III - 72**  
**PULMONARY TESTS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



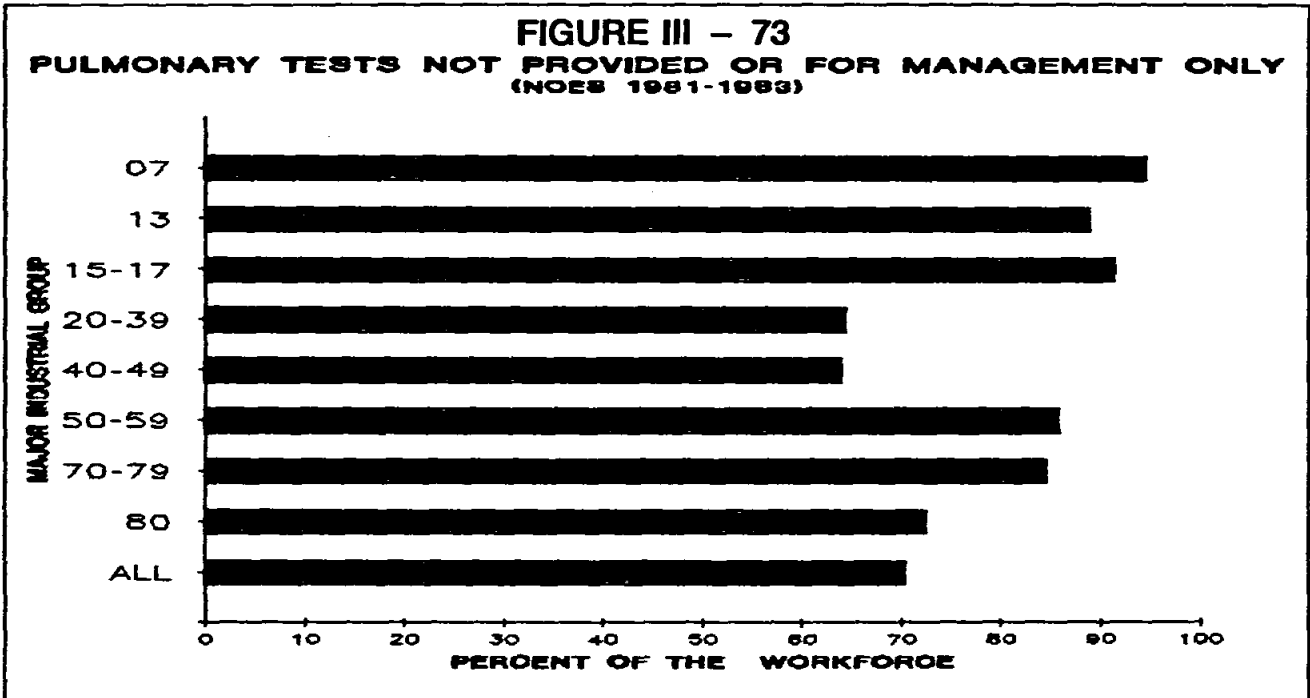
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE PULMONARY TESTS TO ALL OR SELECTED WORKERS

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	269* (159) 3.1%	...	46* (52) 100.0%	316* (159) 3.3%	13234* (7284) 6.3%	...	31383* (35291) 100.0%	44616* (33852) 10.8%
15	564* (396) 2.3%	342* (202) 30.9%	67* (93) 49.8%	973* (464) 3.7%	10427* (7521) 1.9%	58282* (27454) 29.4%	72404* (63356) 53.7%	141113* (69464) 15.8%
16	527* (250) 4.7%	103* (73) 9.2%	49* (43) 46.2%	679* (272) 5.4%	10300* (5069) 3.6%	14975* (10754) 7.2%	53081* (40215) 52.4%	78356* (41412) 13.2%
17	869* (556) 1.5%	123* (106) 6.4%	...	992* (553) 1.7%	25581* (15943) 2.0%	14369* (12505) 4.3%	...	39950* (19011) 2.5%
20	1002* (329) 8.8%	639* (237) 19.9%	155* (66) 27.7%	1796* (447) 11.8%	41374* (17606) 10.7%	141045* (53547) 20.9%	159710* (71028) 32.5%	342129* (69536) 22.0%
21	4* (6) 14.6%	...	14* (28) 17.5%	18* (25) 16.7%	258* (345) 13.8%	...	19407* (32122) 17.3%	19665* (31898) 17.3%
22	34* (47) 1.2%	306* (117) 19.3%	247* (83) 82.5%	587* (146) 12.2%	3324* (4571) 3.7%	87699* (34637) 25.3%	221348* (99372) 84.8%	312372* (98879) 43.7%
23	100* (101) .8%	33* (35) 1.1%	58* (43) 24.1%	191* (109) 1.2%	4586* (4632) 1.1%	9429* (9805) 1.5%	76627* (48463) 36.8%	90642* (48099) 7.3%
24	480* (258) 4.5%	219* (133) 19.1%	19* (8) 18.1%	717* (306) 6.0%	25632* (15044) 8.4%	31741* (19764) 17.3%	35767* (18789) 38.7%	93140* (32871) 16.1%
25	172* (125) 4.1%	197* (99) 18.6%	21* (17) 17.4%	390* (190) 7.3%	6944* (5416) 5.0%	45184* (22705) 17.6%	36223* (28020) 29.4%	88351* (39568) 17.0%
26	241* (146) 5.9%	314* (127) 20.0%	144* (81) 67.1%	698* (250) 11.8%	12442* (7815) 9.0%	52195* (19109) 18.5%	157510* (70364) 76.1%	222147* (80053) 35.5%
27	947* (476) 5.2%	87* (71) 4.6%	104* (64) 33.0%	1138* (485) 5.6%	22803* (10483) 4.8%	12502* (9958) 3.5%	120100* (53317) 34.7%	155404* (53679) 13.1%
28	1467 (347) 23.8%	718 (119) 61.9%	246* (79) 64.8%	2431 (433) 31.5%	62976 (10340) 34.8%	189526 (30928) 72.7%	385534* (111053) 80.9%	638036 (117114) 69.5%
29	...	198* (123) 67.6%	101* (42) 100.0%	299* (140) 21.3%	...	42341* (17767) 66.9%	117545* (70259) 100.0%	159886* (75469) 72.1%
30	187* (102) 2.8%	188* (113) 12.2%	130* (66) 58.0%	505* (175) 6.0%	11453* (6324) 5.1%	35740* (21408) 12.1%	150310* (65089) 64.3%	197502* (65800) 26.2%
31	...	...	...	...	...	...	...	...
32	1082* (499) 12.3%	359* (117) 35.5%	100* (48) 54.6%	1542* (506) 15.4%	37382* (16376) 15.8%	66326* (23840) 31.7%	70406* (40049) 54.6%	174114* (46595) 30.3%
33	717* (240) 17.3%	336* (198) 22.9%	274 (57) 81.4%	1327 (297) 22.3%	34427* (11061) 24.9%	79510* (35396) 25.6%	539564 (67191) 86.8%	653501 (78356) 61.0%

SIC CODE					EMPLOYEES			
	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	2050* (540) 11.1%	455* (118) 14.6%	167* (54) 48.2%	2671 (578) 12.1%	62484* (16640) 11.3%	93309* (29332) 15.6%	188391* (71096) 53.7%	344183 (84411) 22.9%
35	506* (223) 2.2%	462* (132) 13.6%	323 (73) 41.2%	1291 (318) 4.8%	20462* (8302) 3.4%	111412 (27244) 16.9%	644951 (114130) 58.0%	776824 (117183) 32.6%
36	377* (340) 5.3%	435* (124) 16.2%	395 (96) 50.2%	1207* (399) 11.4%	6285* (5098) 2.7%	82457* (27403) 14.9%	802845 (165478) 67.9%	891587 (179448) 45.4%
37	398* (259) 10.0%	70* (45) 5.9%	320* (86) 76.8%	788* (275) 14.1%	27077* (17354) 21.3%	19198* (13329) 8.0%	1316345 (248149) 86.9%	1362619 (246559) 72.5%
38	55* (57) 2.1%	235* (96) 24.5%	159* (88) 38.3%	449* (135) 11.1%	4527* (4673) 4.3%	39591* (16434) 20.4%	218899* (107039) 47.5%	263017* (103958) 34.6%
39	298* (197) 4.5%	124* (291) 15.6%	...	422* (349) 5.5%	8399* (5825) 5.1%	30069* (76279) 20.1%	...	38468* (76771) 7.3%
41	980* (314) 22.2%	180* (66) 35.3%	...	1160* (318) 23.5%	37309* (11498) 31.7%	34456* (26114) 42.3%	...	71765* (27126) 36.0%
42	7016 (1296) 35.0%	804* (234) 54.2%	45* (36) 54.9%	7865 (1342) 36.4%	183216 (35260) 37.6%	137143* (37123) 53.0%	38465* (22793) 51.4%	358824 (49084) 43.7%
45	440* (364) 13.6%	...	115* (47) 78.1%	555* (369) 14.0%	10495* (7675) 13.5%	...	221267* (76829) 83.7%	231762* (77230) 51.4%
48	751* (722) 5.1%	88* (81) 9.7%	19* (16) 56.8%	858* (717) 5.5%	16143* (14712) 3.8%	18455* (17704) 10.5%	37029* (29526) 52.8%	71627* (45165) 10.7%
49	1124* (684) 13.7%	763* (275) 41.0%	89* (74) 51.5%	1977* (798) 19.3%	58566* (34571) 21.7%	189897* (73060) 44.6%	104805* (55062) 71.5%	353269* (110337) 42.0%
50	2944* (989) 9.7%	167* (125) 9.2%	...	3111* (997) 9.7%	90175* (27881) 14.3%	50155* (37774) 17.7%	...	140329* (48724) 15.4%
51	2735* (840) 30.0%	237* (237) 100.0%	...	2972* (906) 31.8%	47759* (14744) 25.8%	27013* (27013) 100.0%	...	74771* (34365) 35.3%
55	...	...	...	...	...	...	...	...
72	216* (241) 1.0%	...	...	216* (241) 1.0%	8211* (9165) 2.2%	...	...	8211* (9165) 1.7%
73	1139* (792) 6.9%	269* (109) 18.0%	172* (112) 50.5%	1580* (794) 8.6%	27295* (21013) 6.5%	73373* (25325) 21.0%	200873* (102687) 61.1%	301541* (105463) 27.4%
75	216* (192) .8%	...	...	216* (192) .8%	10788* (9611) 2.6%	...	...	10788* (9611) 2.6%
76	9* (8) .1%	36* (45) 29.4%	...	45* (45) .5%	483* (423) .3%	12672* (15755) 52.1%	...	13156* (15699) 6.5%
80	95* (74) 3.3%	244* (85) 11.3%	631 (131) 30.6%	970 (118) 13.7%	4724* (3644) 4.6%	54636* (22591) 10.2%	940213 (180997) 31.1%	999573 (173055) 27.3%
All	30155 (3291) 6.8%	8729 (671) 17.6%	4211 (355) 44.7%	43096 (3510) 8.5%	953297 (99468) 8.6%	1854699 (128216) 19.0%	6961001 (399542) 55.9%	9768997 (455744) 29.4%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.





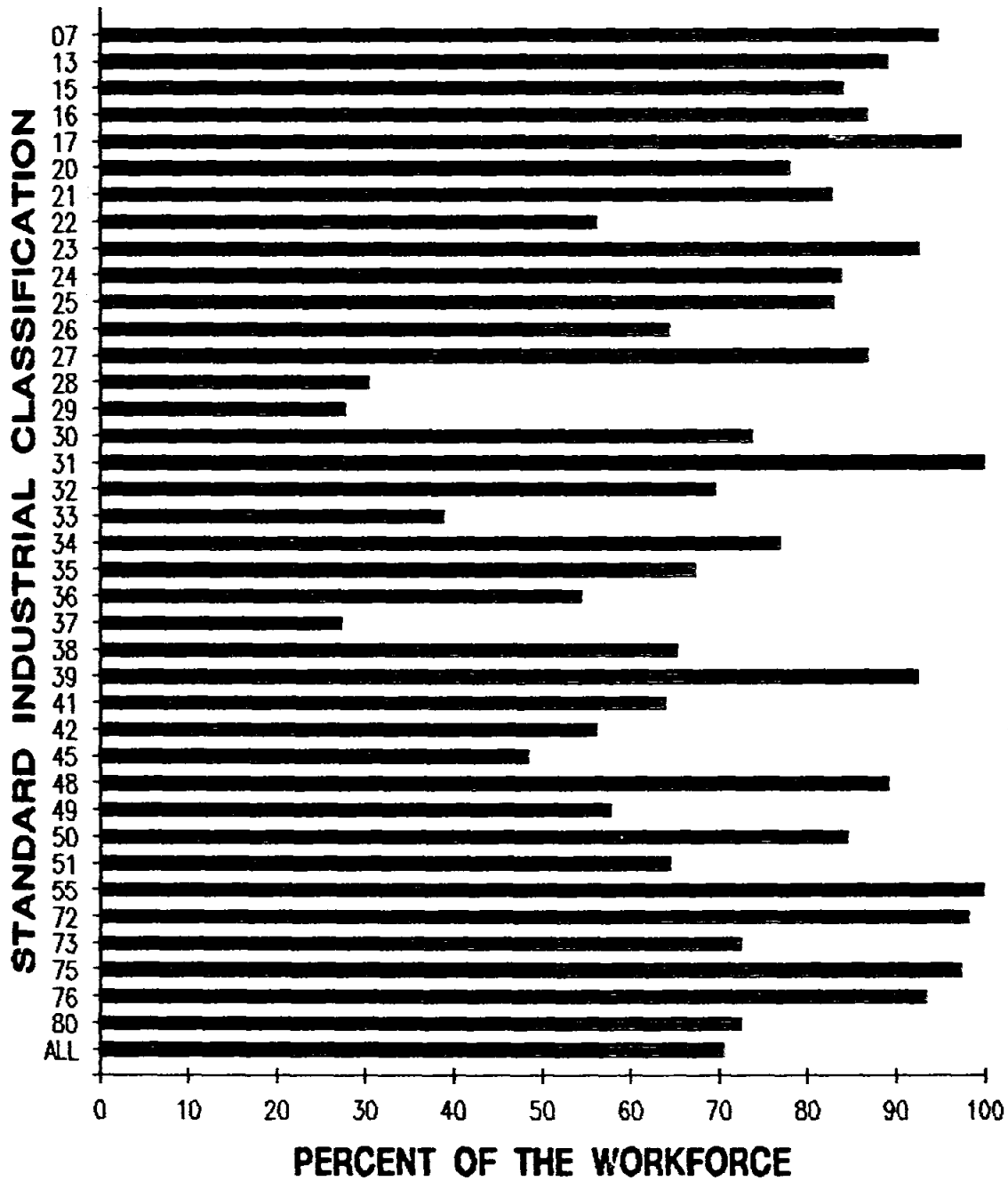
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-63

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
PROVIDE NO PULMONARY TESTS OR EXAMINE MANAGEMENT ONLY

MAJOR GROUP	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8328 (1950) 96.9%	1019* (331) 100.0%	...	9347 (2115) 96.7%	195724 (41324) 93.7%	173943* (58021) 100.0%	...	369667 (84835) 89.2%
15-17	92373 (2414) 97.9%	3577 (460) 86.3%	126* (59) 51.9%	96076 (2493) 97.3%	2052585 (21763) 97.8%	649473 (93521) 88.1%	110572* (51664) 46.8%	2812630 (96147) 91.6%
20-39	143126 (3050) 93.4%	26380 (1629) 83.1%	3292 (202) 52.5%	172799 (3909) 90.3%	4222862 (74150) 91.5%	5211540 (292279) 81.7%	3003839 (159971) 36.3%	12438241 (377162) 64.6%
40-49	42203 (2538) 79.4%	3806 (824) 65.1%	200* (82) 42.7%	46209 (2899) 77.7%	1116627 (84788) 77.9%	739720 (183190) 64.1%	172177* (68072) 30.0%	2028523 (223951) 64.2%
50-59	52712 (3619) 90.3%	2255* (598) 84.8%	...	54968 (3804) 90.0%	986441 (79468) 87.7%	331659* (91146) 81.1%	...	1318100 (130803) 86.0%
70-79	71554 (3813) 97.8%	2042 (318) 87.0%	182* (80) 51.5%	73778 (3778) 97.3%	1346396 (69660) 96.6%	378467 (55074) 81.5%	138687* (58219) 40.8%	1863550 (99148) 84.8%
80	2744* (834) 96.7%	1922 (268) 88.7%	1430 (230) 69.4%	6096 (797) 86.3%	96921 (22723) 95.4%	479849 (69146) 89.8%	2082463 (304609) 68.9%	2659232 (302022) 72.7%
ALL	418460 (7489) 93.1%	41071 (2047) 82.1%	5230 (332) 55.4%	464761 (8130) 91.4%	10115480 (165613) 91.3%	7971660 (383751) 80.8%	5507738 (359263) 44.2%	23594877 (572592) 70.6%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

**FIGURE III - 74**  
**PULMONARY TESTS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
**(NOES 1981-1983)**



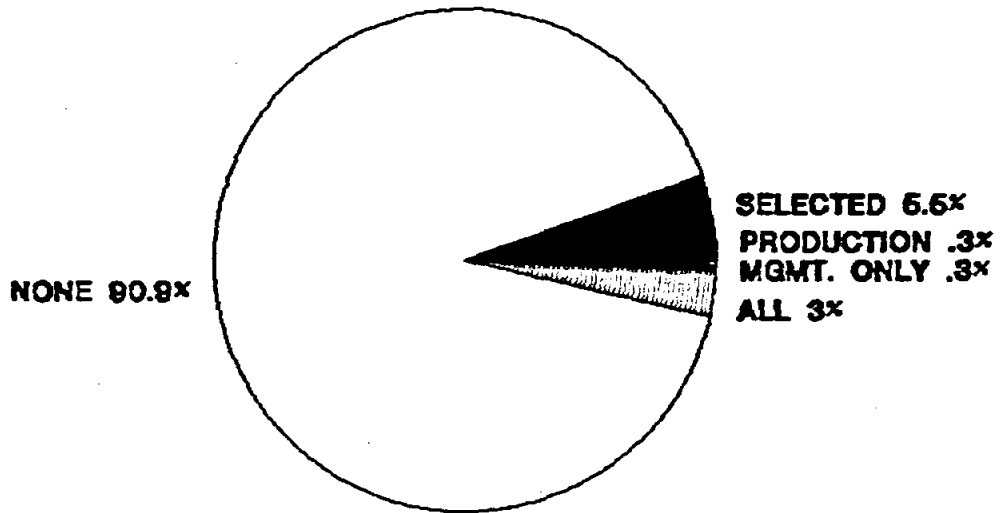
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO PULMONARY TESTS OR EXAMINE MANAGEMENT ONLY

SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8328 (1950) 96.9%	1019* (331) 100.0%	...	9347 (2115) 96.7%	195724 (41324) 93.7%	173943* (58021) 100.0%	...	369667 (84835) 89.2%
15	24352 (1678) 97.7%	766 (188) 69.2%	68* (30) 50.3%	25185 (1688) 96.3%	552462 (43062) 98.1%	139936* (36675) 70.6%	62395* (30350) 46.3%	754793 (65834) 84.2%
16	10758 (1527) 95.3%	1016 (189) 90.8%	58* (43) 54.0%	11832 (1521) 94.6%	273789 (47129) 96.4%	192784 (41809) 92.8%	48177* (32445) 47.6%	514750 (76999) 86.8%
17	57263 (1732) 98.5%	1795 (411) 93.6%	...	59059 (1835) 98.3%	1226334 (36949) 98.0%	316753* (81615) 95.7%	...	1543087 (90011) 97.5%
20	10410 (728) 91.2%	2577 (328) 80.1%	405 (88) 72.4%	13391 (88) 88.2%	347064 (18413) 89.3%	532735 (83655) 79.1%	332065 (69127) 67.5%	1211865 (103880) 78.0%
21	26* (42) 86.5%	...	65* (47) 82.0%	91* (58) 83.3%	1608* (2605) 86.2%	...	92726* (63929) 82.7%	94334* (63432) 82.8%
22	2897 (392) 98.8%	1283 (190) 80.8%	52* (22) 17.4%	4232 (410) 87.8%	102708 (6888) 96.9%	259374 (36669) 74.7%	39745* (17611) 15.2%	401827 (48316) 56.3%
23	12414 (758) 99.2%	3069 (165) 98.9%	184* (75) 76.0%	15667 (769) 98.8%	419318 (7336) 98.9%	600493 (30442) 98.5%	131810* (60544) 63.2%	1151621 (61702) 92.7%
24	10232 (692) 95.5%	929 (149) 80.9%	85* (73) 82.1%	11246 (764) 94.0%	278014 (26632) 91.6%	151844 (24541) 82.7%	56588* (48232) 61.3%	486446 (78548) 83.9%
25	3993 (484) 95.9%	865 (150) 81.4%	98* (75) 82.2%	4955 (493) 92.7%	132165 (19884) 95.0%	211258 (40632) 82.4%	86775* (64261) 70.6%	430198 (79956) 83.0%
26	3872 (745) 94.1%	1255 (239) 80.0%	71* (77) 33.0%	5197 (767) 88.1%	125212 (16612) 91.0%	229280 (48050) 81.5%	49354* (49226) 23.9%	403847 (69835) 64.5%
27	17171 (1164) 94.8%	1786 (180) 95.4%	212* (91) 67.1%	19169 (1163) 94.4%	455328 (15463) 95.2%	348400 (48015) 96.5%	225657* (65739) 65.3%	1029379 (97069) 86.9%
28	4706 (413) 76.2%	443* (125) 38.2%	134* (68) 35.2%	5282 (412) 68.5%	117763 (9942) 65.2%	71305* (23458) 27.3%	90806* (45573) 19.1%	279874 (47194) 30.5%
29	1011* (404) 100.0%	95* (65) 32.6%	...	1106* (400) 78.7%	40980* (17325) 100.0%	20915* (15663) 33.1%	...	61895* (21450) 27.9%
30	6524 (1153) 97.2%	1349* (466) 87.8%	94* (44) 41.9%	7966 (1365) 94.0%	213551 (27091) 94.9%	258790* (96321) 87.9%	83337* (38316) 35.7%	555678 (99570) 73.8%
31	931* (343) 100.0%	569 (131) 100.0%	25* (24) 100.0%	1525 (372) 100.0%	24888* (7207) 100.0%	135459* (34334) 100.0%	15664* (16901) 100.0%	176011 (38675) 100.0%
32	7716 (1212) 87.7%	653 (131) 64.5%	83* (51) 45.3%	8452 (1253) 84.6%	199778 (20702) 84.2%	142658 (30880) 68.3%	58587* (35777) 45.4%	401023 (42801) 69.7%
33	3418 (555) 82.7%	1132 (204) 77.1%	63* (32) 18.6%	4613 (564) 77.7%	104041 (17632) 75.1%	231571 (42189) 74.4%	81935* (34892) 13.2%	417547 (47335) 39.0%

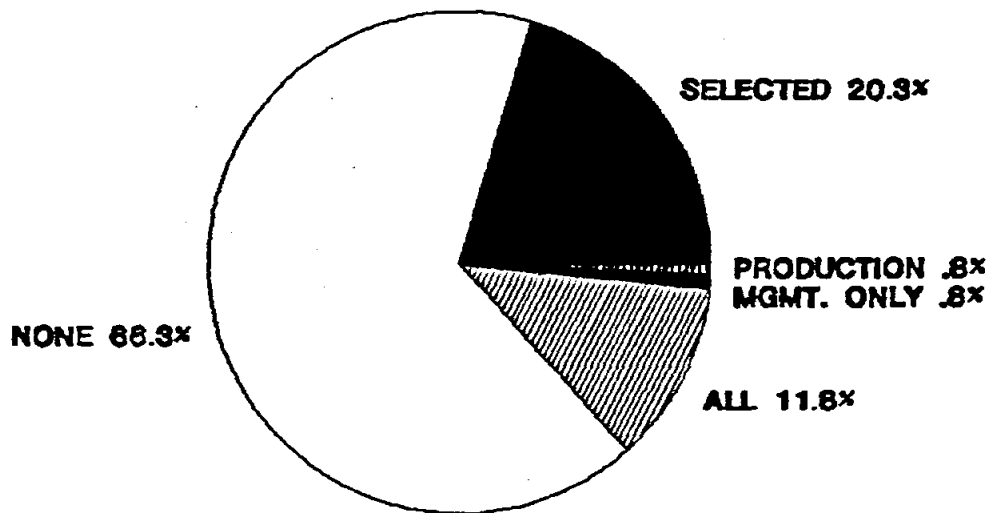
SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	16471 (1252) 88.9%	2667 (205) 85.4%	179* (76) 51.6%	19317 (1250) 87.9%	492402 (21581) 88.7%	503376 (36569) 84.4%	162665* (73351) 46.3%	1158442 (86275) 77.1%
35	22144 (1046) 97.8%	2943 (171) 86.4%	461 (70) 58.8%	25548 (1137) 95.2%	586338 (8297) 96.6%	549708 (27242) 83.1%	467983 (85587) 42.0%	1604029 (97746) 67.4%
36	6727 (488) 94.7%	2250 (182) 83.8%	392* (143) 49.8%	9369 (506) 88.6%	224204 (11280) 97.3%	470205 (27432) 85.1%	379617* (117013) 32.1%	1074025 (119905) 54.6%
37	3575 (837) 90.0%	1120 (113) 94.1%	96* (34) 23.1%	4791 (811) 85.9%	99945 (17384) 78.7%	219986 (30290) 92.0%	197664 (45407) 13.1%	517595 (52083) 27.5%
38	2634 (517) 98.0%	722 (103) 75.4%	256* (126) 61.6%	3612 (580) 88.9%	100075 (13962) 95.7%	154802 (26701) 79.6%	241498* (119706) 52.5%	496375* (125451) 65.4%
39	6256 (568) 95.5%	674* (1222) 84.4%	338* (216) 100.0%	7268 (1302) 94.5%	157478 (13498) 94.9%	119380* (207153) 79.9%	209369* (120490) 100.0%	486228* (203998) 92.7%
41	3440* (942) 77.8%	330* (158) 64.6%	...	3769* (1003) 76.5%	80324* (22467) 68.3%	47086* (22324) 57.7%	...	127409* (39902) 64.0%
42	13011 (1720) 65.0%	678* (214) 45.8%	37* (34) 44.6%	13726 (1743) 63.6%	304586 (41092) 62.4%	121679* (36209) 47.0%	36365* (40839) 48.6%	462630 (60716) 56.3%
45	2801* (770) 86.4%	590* (397) 99.9%	33* (38) 22.3%	3423* (968) 86.1%	67001* (17533) 86.5%	109332* (75829) 100.0%	42988* (35767) 16.3%	219321* (86597) 48.6%
48	13951 (2124) 94.9%	814 (168) 90.2%	14* (12) 42.3%	14779 (2177) 94.5%	409615 (82753) 96.2%	157867 (37866) 89.5%	33054* (28615) 47.2%	600536 (92420) 89.3%
49	7091 (1631) 86.3%	1099* (417) 59.0%	84* (61) 48.3%	8274 (1791) 80.7%	210804 (46857) 78.3%	235573* (121399) 55.4%	41760* (30428) 28.5%	488136* (149025) 58.0%
50	27405 (2419) 90.3%	1636* (434) 90.8%	...	29041 (2494) 90.3%	540130 (60552) 85.7%	233084* (62255) 82.3%	...	773214 (99216) 84.6%
51	6379 (1205) 70.0%	...	...	6379 (1205) 68.2%	137266* (38814) 74.2%	...	...	137266* (38814) 64.7%
55	18928 (3032) 100.0%	620* (491) 99.9%	...	19548 (3239) 100.0%	309045 (54796) 100.0%	98575* (80174) 100.0%	...	407620* (110347) 100.0%
72	20413 (2485) 99.0%	675* (190) 100.0%	13* (19) 100.0%	21102 (2536) 99.0%	371808 (52648) 97.8%	82220* (24190) 100.0%	10670* (15114) 100.0%	464699 (65026) 98.3%
73	15435 (1682) 93.1%	1220 (217) 81.9%	169* (69) 49.5%	16824 (1591) 91.4%	394152 (38516) 93.5%	276340 (46118) 79.0%	128017* (50410) 38.9%	798509 (71780) 72.6%
75	25964 (3887) 99.2%	59* (60) 99.7%	...	26023 (3892) 99.2%	402487 (62726) 97.4%	8238* (8380) 100.0%	...	410725 (63159) 97.4%
76	9742 (2197) 99.9%	87* (78) 70.8%	...	9829 (2202) 99.5%	177949 (29886) 99.7%	11669* (10488) 47.9%	...	189617 (32911) 93.5%
80	2744* (834) 96.7%	1922 (268) 88.7%	1430 (230) 69.4%	6096 (797) 86.3%	96921 (22723) 95.4%	479849 (69146) 89.8%	2082463 (304609) 68.9%	2659232 (302022) 72.7%
All	416550 (7221) 93.2%	40823 (746) 82.4%	5214 (304) 55.3%	462587 (7380) 91.5%	10071183 (107787) 91.4%	7919083 (127762) 81.0%	5498733 (350319) 44.1%	23488999 (412036) 70.6%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

**FIGURE III - 75**  
**PROVISION OF PULMONARY TESTS**  
**(NOES 1981-1983)**



**PLANTS**



**WORKERS**

**Analysis of Chest X-ray Provision**

(see text on questionnaire item 22 for definitions and notes)

This sub-item was displayed on the questionnaire as:

Chest X-rays                            1                    2                    3                    4                    5

(Note: Response categories are as shown in the display of question 22.)

Three analyses of the responses to the chest x-ray sub-item are presented.

- (1) Response 2, 4, or 5 - Provision of chest x-ray to all, production, or selected workers

The estimates of the plants which provide chest x-rays to all workers, production workers or selected workers, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-76 and III-77, and Tables III-65 and III-66.

Figure III-76        Chest x-rays provided to all or selected workers  
(by major industrial group)

Figure III-77        Chest x-rays provided to all or selected workers  
(by 2-digit SIC)

Table III-65        Number and percent of plants and employees in plants  
which provide chest x-rays to all or selected workers  
(by major industry group)

Table III-66        Number and percent of plants and employees in plants  
which provide chest x-rays to all or selected workers  
(by 2-digit SIC)

- (2) Response 1 or 3 - No provision of chest x-rays, or examination of management personnel only

The estimates of plants which either do not provide chest x-rays or provide them only to management personnel, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-78 and III-79, and Tables III-67 and III-68.

Figure III-78        Chest x-rays not provided or for management only  
(by major industrial group)

Figure III-79        Chest x-rays not provided or for management only  
(by 2-digit SIC)

Table III-67        Number and percent of plants and employees in plants  
which provide no chest x-rays or examine management only  
(by major industrial group)

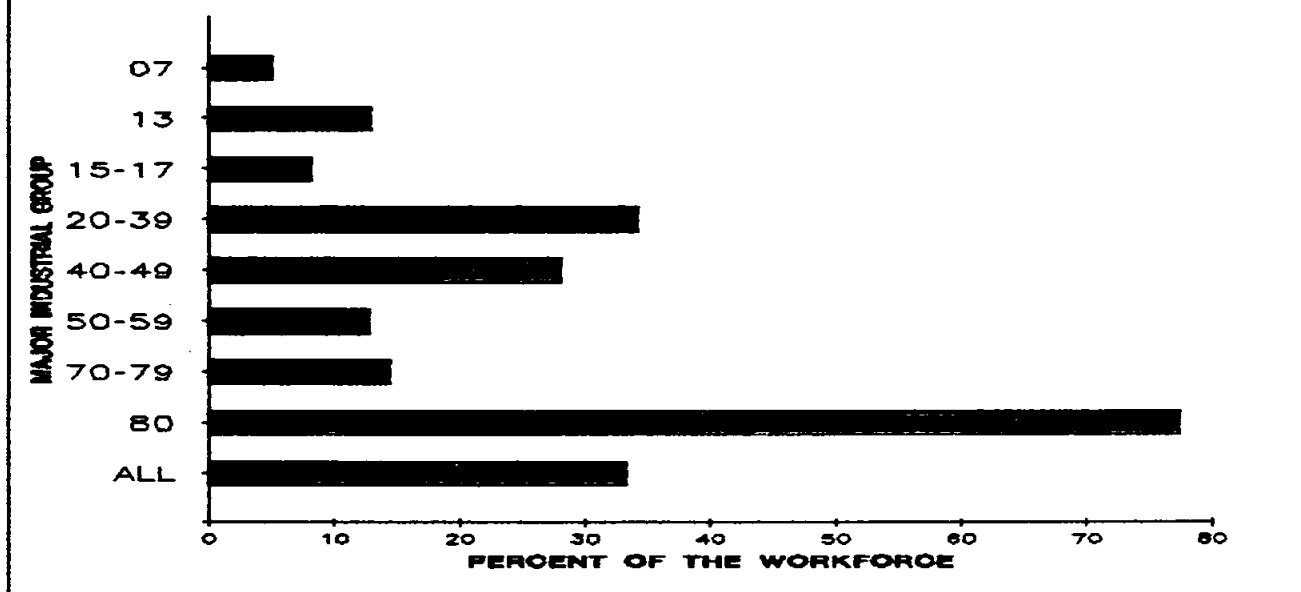
Table III-68        Number and percent of plants and employees in plants  
which provide no chest x-rays or examine management only  
(by 2-digit SIC)

**(3) Response 1, 2, 3, 4, or 5 - Provision of chest x-rays.**

**The estimated proportions of plants and workers in those plants corresponding to each of the five possible responses to the chest x-ray inquiry are presented in Figure III-80.**

**Figure III-80 Provision of chest x-rays**

**FIGURE III - 76**  
**CHEST X-RAYS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-65

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
 PROVIDE CHEST X-RAYS TO ALL OR SELECTED WORKERS

MAJOR GROUP	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	269* (159) 3.1%	58* (57) 5.7%	46* (52) 100.0%	374* (157) 3.9%	13234* (7284) 6.3%	9648* (9529) 5.5%	31383* (35291) 100.0%	54264* (34473) 13.1%
15-17	1736* (486) 1.8%	775* (259) 18.7%	58* (44) 23.9%	2568 (581) 2.6%	47532* (15892) 2.3%	122947* (38665) 16.7%	86006* (50755) 36.4%	256485* (67814) 8.3%
20-39	9292 (1501) 6.1%	5314 (796) 16.7%	2803 (195) 44.7%	17410 (1760) 9.1%	346471 (43831) 7.5%	1122893 (198287) 17.6%	5149233 (281013) 62.3%	6618597 (424610) 34.4%
40-49	9379 (1598) 17.6%	1722 (362) 29.5%	190* (108) 40.7%	11291 (1681) 19.0%	250762 (41117) 17.5%	352785 (86877) 30.6%	291508* (89993) 50.8%	895055 (131349) 28.3%
50-59	5115 (1184) 8.8%	381* (256) 14.3%	...	5495 (1189) 9.0%	128798 (28353) 11.5%	70489* (46886) 17.2%	...	199287* (54376) 13.0%
70-79	2852* (1014) 3.9%	323* (104) 13.8%	136* (103) 38.5%	3312* (983) 4.4%	60653* (24514) 4.4%	87430* (25031) 18.8%	173074* (97756) 51.0%	321158* (99817) 14.6%
80	1201* (562) 42.3%	1415 (205) 65.3%	1683 (249) 81.7%	4299 (791) 60.8%	41074* (15981) 40.4%	334909 (51626) 62.7%	2463004 (303676) 81.5%	2838986 (326515) 77.6%
ALL	29988 (2799) 6.7%	9988 (977) 20.0%	4917 (357) 52.1%	44893 (3051) 8.8%	894282 (74886) 8.1%	2101101 (232252) 21.3%	8194208 (438935) 65.7%	11189591 (568240) 33.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.



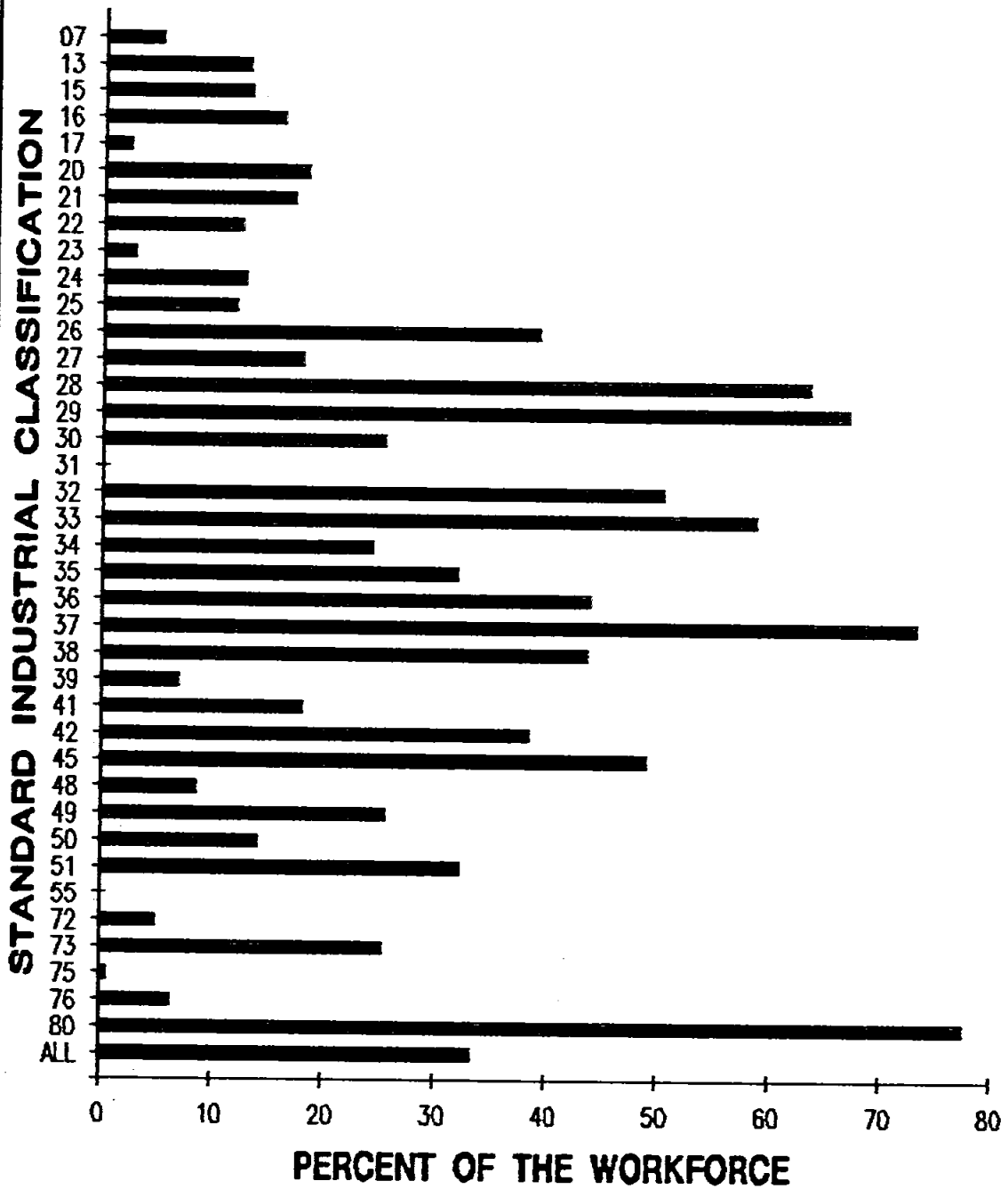
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE CHEST X-RAYS TO ALL OR SELECTED WORKERS

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	269* (159) 3.1%	58* (57) 5.7%	46* (52) 100.0%	374* (157) 3.9%	13234* (7284) 6.3%	9648* (9529) 5.5%	31383* (35291) 100.0%	54264* (34473) 13.1%
15	331* (330) 1.3%	451* (205) 40.7%	8* (5) 6.2%	791* (386) 3.0%	2982* (2967) .5%	83811* (33788) 42.3%	32925* (20856) 24.4%	119717* (43427) 13.4%
16	949* (501) 8.4%	201* (131) 17.9%	49* (43) 46.2%	1199* (524) 9.6%	19088* (10662) 6.7%	24767* (14952) 11.9%	53081* (40215) 52.4%	96936* (42073) 16.3%
17	456* (277) .8%	123* (106) 6.4%	...	579* (289) 1.0%	25463* (16499) 2.0%	14369* (12505) 4.3%	...	39832* (20393) 2.5%
20	1258* (405) 11.0%	645* (188) 20.1%	89* (47) 16.0%	1993* (450) 13.1%	46341* (17895) 11.9%	127641* (47114) 18.9%	111203* (62548) 22.6%	285185* (77722) 18.4%
21	4* (6) 14.6%	...	14* (28) 17.5%	18* (25) 16.7%	258* (345) 13.8%	...	19407* (32122) 17.3%	19665* (31898) 17.3%
22	...	79* (59) 5.0%	96* (60) 32.0%	175* (102) 3.6%	...	23950* (16912) 6.9%	66263* (41203) 25.4%	90213* (53499) 12.6%
23	100* (101) .8%	11* (18) .4%	11* (8) 4.7%	122* (100) .8%	4586* (4632) 1.1%	2200* (3662) .4%	29565* (21706) 14.2%	36351* (19765) 2.9%
24	396* (238) 3.7%	132* (112) 11.5%	19* (8) 18.1%	547* (241) 4.6%	21796* (14528) 7.2%	17464* (17308) 9.5%	35767* (18789) 38.7%	75027* (24189) 12.9%
25	172* (125) 4.1%	171* (97) 16.1%	3* (4) 2.7%	346* (169) 6.5%	6944* (5416) 5.0%	34909* (19493) 13.6%	20917* (22806) 17.0%	62770* (36208) 12.1%
26	227* (171) 5.5%	314* (127) 20.0%	178* (70) 83.0%	719* (231) 12.2%	14492* (11960) 10.5%	52195* (19109) 18.5%	179517* (62131) 86.8%	246204* (65061) 39.3%
27	1078* (412) 6.0%	112* (103) 6.0%	136* (66) 43.2%	1327* (410) 6.5%	26881* (7628) 5.6%	22111* (24653) 6.1%	164966* (56360) 47.7%	213957* (54835) 18.1%
28	1479* (397) 24.0%	621 (115) 53.5%	243* (83) 63.8%	2342 (459) 30.4%	57663 (11579) 31.9%	157333 (29154) 60.3%	368400* (107420) 77.3%	583395 (109281) 63.6%
29	...	163* (117) 55.8%	101* (42) 100.0%	265* (135) 18.8%	...	31271* (14210) 49.4%	117545* (70259) 100.0%	148816* (75658) 67.1%
30	146* (86) 2.2%	154* (106) 10.0%	130* (66) 58.0%	429* (153) 5.1%	8771* (5130) 3.9%	33218* (22130) 11.3%	150310* (65089) 64.3%	192299* (66496) 25.5%
31	...	...	...	...	...	...	...	...
32	1243* (444) 14.1%	479* (175) 47.4%	184* (71) 99.9%	1906 (436) 19.1%	49478* (15770) 20.9%	112033* (41197) 53.6%	128993* (49687) 100.0%	290504 (58518) 50.5%
33	415* (233) 10.0%	498* (152) 33.9%	224 (48) 66.6%	1138* (292) 19.2%	18071* (9322) 13.1%	109443* (29599) 35.2%	502806 (91336) 80.9%	630320 (97412) 58.9%

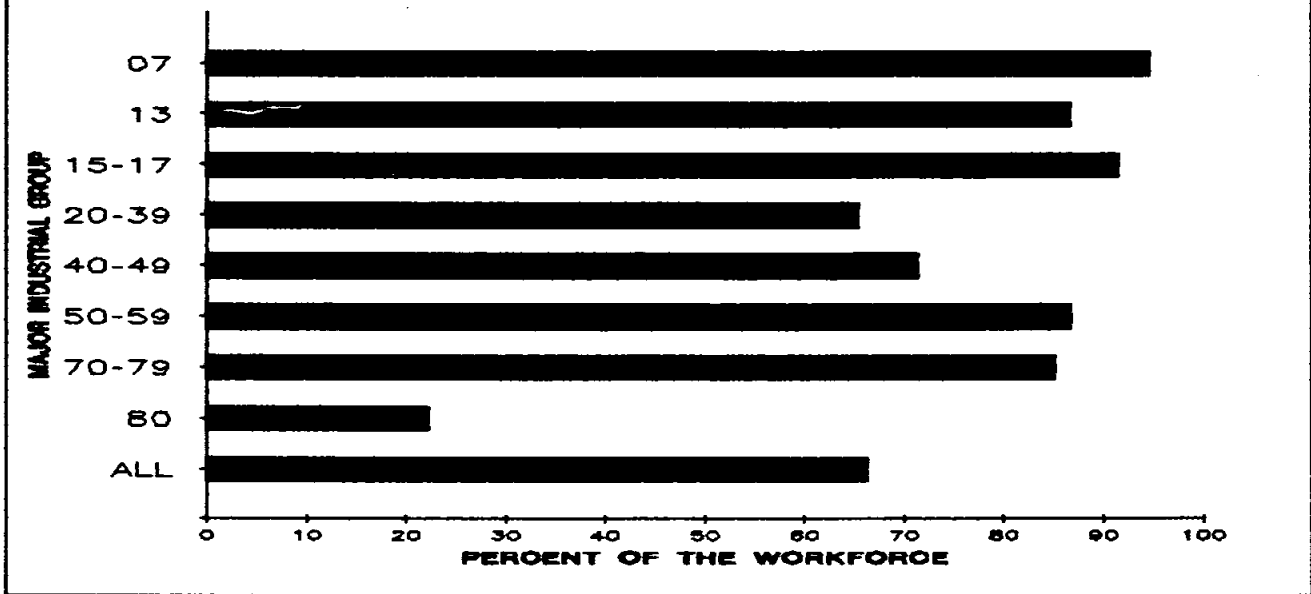
SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	1837* (523) 9.9%	533 (113) 17.1%	170* (78) 49.3%	2540 (568) 11.6%	54867* (14979) 9.9%	104483 (19059) 17.5%	208224* (111525) 59.3%	367574* (116447) 24.5%
35	358* (146) 1.6%	681* (207) 20.0%	276* (82) 35.3%	1315 (301) 4.9%	16816* (7164) 2.8%	147028 (33510) 22.2%	599806 (118616) 53.9%	763650 (121132) 32.1%
36	377* (340) 5.3%	260* (138) 9.7%	385 (93) 48.9%	1022* (393) 9.7%	6285* (5098) 2.7%	47686* (30565) 8.6%	810537 (177666) 68.5%	864508 (190298) 44.0%
37	34* (75) .8%	103* (58) 8.7%	313* (80) 75.1%	449* (139) 8.1%	1954* (4362) 1.5%	27937* (17569) 11.7%	1348392 (235716) 89.1%	1378283 (239338) 73.3%
38	55* (57) 2.1%	233* (110) 24.3%	231* (100) 55.4%	518* (165) 12.8%	4527* (4673) 4.3%	41222* (20720) 21.2%	286614* (110426) 62.3%	332364* (109141) 43.8%
39	113* (89) 1.7%	127* (361) 15.9%	...	240* (379) 3.1%	6740* (5785) 4.1%	30769* (100919) 20.6%	...	37509* (101301) 7.1%
41	579* (317) 13.1%	154* (100) 30.1%	...	733* (316) 14.9%	15918* (8862) 13.5%	20277* (12952) 24.9%	...	36195* (14254) 18.2%
42	6308 (1074) 31.5%	681* (211) 46.0%	33* (34) 40.1%	7022 (1130) 32.5%	175698 (31360) 36.0%	120827* (35059) 46.7%	20252* (14613) 27.1%	316777 (49262) 38.6%
45	596* (591) 18.4%	...	93* (37) 63.5%	690* (590) 17.3%	17790* (17478) 23.0%	...	203993* (75933) 77.2%	221783* (79800) 49.2%
48	751* (722) 5.1%	88* (81) 9.7%	16* (14) 46.7%	855* (718) 5.5%	16143* (14712) 3.8%	18455* (17704) 10.5%	23804* (21666) 34.0%	58401* (39613) 8.7%
49	507* (366) 6.2%	596* (224) 32.0%	48* (75) 27.9%	1151* (462) 11.2%	13701* (8094) 5.1%	159583* (64488) 37.5%	43459* (52659) 29.7%	216743* (80548) 25.8%
50	2838* (956) 9.4%	144* (143) 8.0%	...	2982* (985) 9.3%	86987* (28622) 13.8%	43477* (43050) 15.3%	...	130464* (54804) 14.3%
51	2276* (891) 25.0%	237* (237) 100.0%	...	2513* (961) 26.9%	41811* (15325) 22.6%	27013* (27013) 100.0%	...	68823* (34906) 32.5%
55	...	...	...	...	...	...	...	...
72	1450* (788) 7.0%	...	...	1450* (788) 6.8%	24178* (14039) 6.4%	...	...	24178* (14039) 5.1%
73	1068* (762) 6.4%	287* (109) 19.3%	136* (103) 40.0%	1491* (764) 8.1%	33063* (22886) 7.8%	74757* (24742) 21.4%	173074* (97756) 52.6%	280895* (102236) 25.5%
75	325* (285) 1.2%	...	...	325* (285) 1.2%	2929* (2561) .7%	...	...	2929* (2561) .7%
76	9* (8) .1%	36* (45) 29.4%	...	45* (45) .5%	483* (423) .3%	12672* (15755) 52.1%	...	13156* (15699) 6.5%
80	1201* (562) 42.3%	1415 (205) 65.3%	1683 (249) 81.7%	4299 (791) 60.8%	41074* (15981) 40.4%	334909 (51626) 62.7%	2463004 (303676) 81.5%	2838986 (326515) 77.6%
All	29350 (3136) 6.6%	9785 (735) 19.7%	4917 (423) 52.2%	44053 (3565) 8.7%	882769 (85592) 8.0%	2067457 (163426) 21.2%	8194208 (466132) 65.8%	11144434 (561109) 33.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

**FIGURE III - 77**  
**CHEST X-RAYS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



**FIGURE III - 78**  
**CHEST X-RAYS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
**(NOES 1981-1983)**



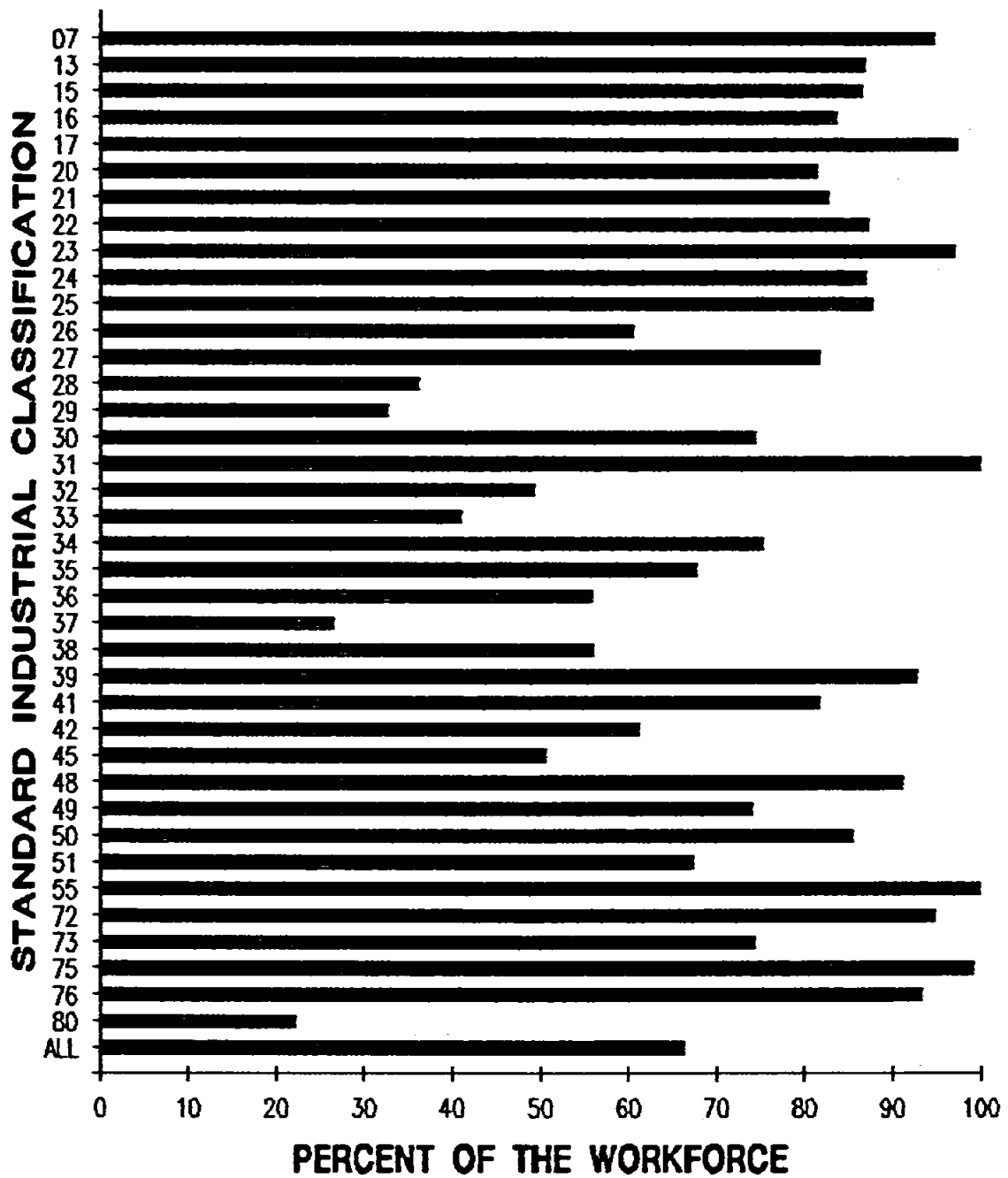
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-67

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO CHEST X-RAYS OR EXAMINE MANAGEMENT ONLY

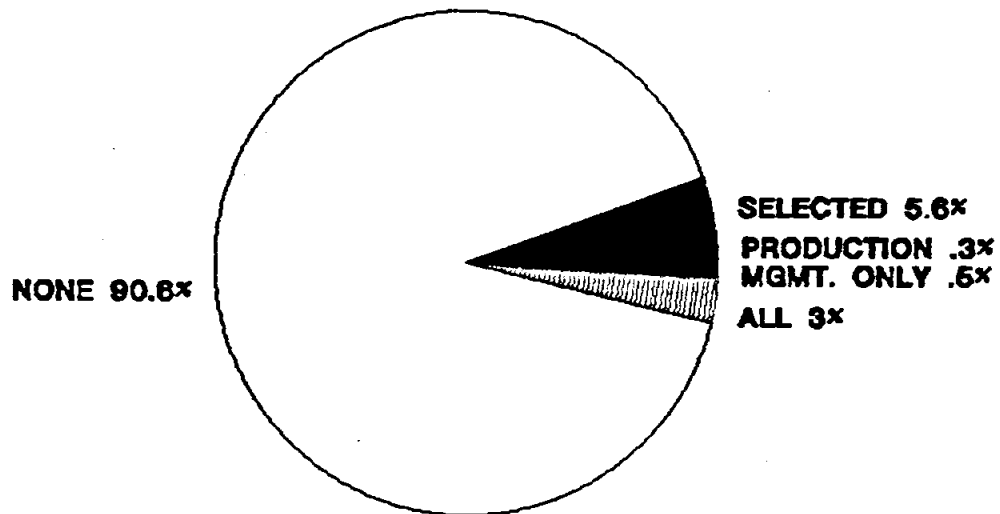
MAJOR GROUP	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8328 (1950) 96.9%	961* (338) 94.3%	...	9288 (2127) 96.1%	195724 (41324) 93.7%	164295* (59610) 94.5%	...	360019 (86778) 86.9%
15-17	92596 (2416) 98.2%	3370 (494) 81.3%	185* (116) 76.3%	96151 (2508) 97.4%	2051360 (22514) 97.7%	614152 (104290) 83.3%	150051* (87268) 63.6%	2815564 (125740) 91.7%
20-39	143950 (2767) 93.9%	26440 (1579) 83.3%	3467 (220) 55.3%	173856 (3612) 90.9%	4269224 (58498) 92.5%	5257920 (263293) 82.4%	3116088 (173855) 37.7%	12643231 (342273) 65.6%
40-49	43773 (2896) 82.4%	4122 (859) 70.5%	278* (84) 59.3%	48173 (3284) 81.0%	1183107 (104354) 82.5%	800529 (185335) 69.4%	282235* (78311) 49.2%	2265871 (256850) 71.7%
50-59	53277 (3737) 91.2%	2278* (596) 85.7%	...	55555 (3903) 91.0%	995577 (76922) 88.5%	338337* (90994) 82.8%	...	1333914 (127446) 87.0%
70-79	70281 (3829) 96.1%	2023 (342) 86.2%	218* (95) 61.6%	72522 (3794) 95.6%	1332521 (75011) 95.6%	377082 (61280) 81.2%	166486* (70735) 49.0%	1876089 (100313) 85.4%
80	1638* (643) 57.7%	751* (226) 34.7%	378* (106) 18.3%	2768 (628) 39.2%	60571* (21524) 59.6%	199576* (59594) 37.3%	559672 (139890) 18.5%	819819 (141331) 22.4%
ALL	419264 (7556) 93.3%	40015 (2029) 80.0%	4525 (298) 47.9%	463804 (8185) 91.2%	10186008 (171488) 91.9%	7758901 (365695) 78.7%	4274532 (261814) 34.3%	22219441 (503589) 66.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

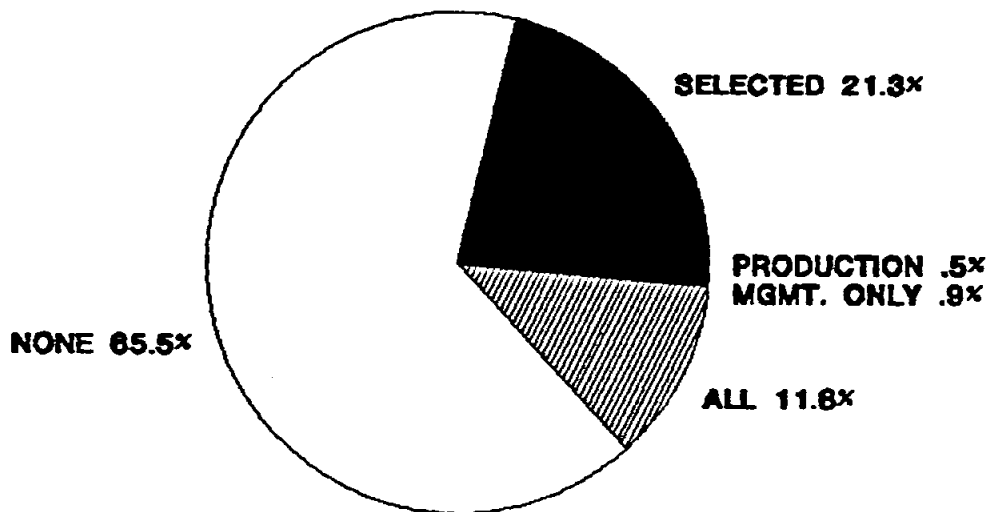
**FIGURE III - 79**  
**CHEST X-RAYS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
**(NOES 1981-1983)**



**FIGURE III - 80**  
**PROVISION OF CHEST X-RAYS**  
**(NOES 1981-1983)**



**PLANTS**



**WORKERS**

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO CHEST X-RAYS OR EXAMINE MANAGEMENT ONLY

SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	9792* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8328 (1950) 96.9%	961* (338) 94.3%	...	9288 (2127) 96.1%	195724 (41324) 93.7%	164295* (59610) 94.5%	...	360019 (86778) 86.9%
15	24584 (1709) 98.7%	656* (167) 59.3%	127* (101) 93.9%	25367 (1704) 97.0%	559907 (44515) 99.5%	114407 (28372) 57.7%	101874* (75211) 75.6%	776188 (90905) 86.6%
16	10336 (1517) 91.6%	918 (177) 82.1%	58* (43) 54.0%	11312 (1536) 90.4%	265001 (46467) 93.3%	182992 (42164) 88.1%	48177* (32445) 47.6%	496170 (78671) 83.7%
17	57677 (1672) 99.2%	1795 (411) 93.6%	...	59472 (1761) 99.0%	1226452 (28563) 98.0%	316753* (81615) 95.7%	...	1543206 (90046) 97.5%
20	10154 (757) 89.0%	2570 (410) 79.9%	470 (101) 84.1%	13195 (904) 86.9%	342097 (18746) 88.1%	546139 (95860) 81.1%	380572 (74036) 77.4%	1268808 (101471) 81.6%
21	26* (42) 86.5%	...	65* (47) 82.0%	91* (58) 83.3%	1608* (2605) 86.2%	...	92726* (63929) 82.7%	94334* (63432) 82.8%
22	2932 (393) 100.0%	1509 (162) 95.0%	203* (81) 68.0%	4644 (384) 96.4%	106032 (5745) 100.0%	323123 (30712) 93.1%	194830* (100218) 74.6%	623985 (101171) 87.4%
23	12414 (758) 99.2%	3091 (161) 99.7%	231* (93) 95.5%	15736 (776) 99.2%	419318 (7336) 98.9%	607722 (29492) 99.6%	178872* (78134) 85.8%	1205912 (80214) 97.1%
24	10315 (648) 96.3%	1016 (149) 88.5%	85* (73) 82.1%	11416 (693) 95.4%	281850 (25200) 92.8%	166121 (28085) 90.5%	56588* (48232) 61.3%	504559 (73679) 87.1%
25	3993 (484) 95.9%	891 (152) 83.9%	115* (75) 96.9%	4999 (496) 93.5%	132165 (19884) 95.0%	221534 (41041) 86.4%	102081* (64610) 83.0%	455779 (80651) 87.9%
26	3885 (740) 94.5%	1255 (239) 80.0%	37* (36) 17.1%	5177 (768) 87.8%	123162 (15618) 89.5%	229280 (48050) 81.5%	27347* (22916) 13.2%	379790 (56003) 60.7%
27	17039 (1152) 94.0%	1761 (172) 94.0%	180* (91) 56.9%	18981 (1135) 93.5%	451251 (14340) 94.4%	338792 (42878) 93.9%	180785* (65934) 52.3%	970827 (92471) 81.9%
28	4694 (412) 76.0%	540 (115) 46.5%	137* (61) 36.1%	5371 (418) 69.6%	123076 (11378) 68.1%	103498 (22916) 39.7%	107941* (48021) 22.7%	334515 (53099) 36.4%
29	1011* (404) 100.0%	130* (67) 44.4%	...	1141* (407) 81.2%	40980* (17325) 100.0%	31984* (16940) 50.6%	...	72964* (23713) 32.9%
30	6565 (1149) 97.8%	1383* (439) 90.0%	94* (44) 41.9%	8042 (1343) 94.9%	216233 (27175) 96.1%	261312* (91719) 88.7%	83337* (38316) 35.7%	560882 (94776) 74.5%
31	931* (343) 100.0%	569 (131) 100.0%	25* (24) 100.0%	1525 (372) 100.0%	24888* (7207) 100.0%	135459* (34334) 100.0%	15664* (16901) 100.0%	176011 (38675) 100.0%
32	7555 (1240) 85.9%	533* (137) 52.6%	...	8088 (1191) 80.9%	187682 (21375) 79.1%	96951* (31699) 46.4%	...	284633 (30114) 49.5%
33	3719 (515) 90.0%	970 (169) 66.1%	113* (45) 33.4%	4802 (551) 80.9%	120397 (15426) 86.9%	201638 (31546) 64.8%	118693* (47181) 19.1%	440728 (54535) 41.1%

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	16684 (1270) 90.1%	2589 (167) 82.9%	175* (56) 50.6%	19448 (1296) 88.4%	500018 (20185) 90.1%	492201 (28974) 82.5%	142832* (50082) 40.7%	1135051 (59206) 75.5%
35	22292 (1068) 98.4%	2724 (211) 80.0%	507 (87) 64.7%	25524 (1080) 95.1%	589983 (7562) 97.2%	514092 (33507) 77.8%	513127 (88723) 46.1%	1617203 (99515) 67.9%
36	6727 (488) 94.7%	2425 (188) 90.3%	402* (158) 51.1%	9555 (521) 90.3%	224204 (11280) 97.3%	504976 (30585) 91.4%	371925* (127612) 31.5%	1101104 (123961) 56.0%
37	3940 (847) 99.2%	1087 (108) 91.4%	103* (42) 24.8%	5130 (830) 91.9%	125068 (16629) 98.5%	211247 (31142) 88.3%	165616* (48670) 10.9%	501931 (53521) 26.7%
38	2634 (517) 98.0%	724 (113) 75.7%	185* (102) 44.5%	3543 (556) 87.2%	100075 (13962) 95.7%	153170 (29840) 78.8%	173783* (101605) 37.7%	427028* (107227) 56.2%
39	6440 (674) 98.3%	671* (1164) 84.1%	338* (216) 100.0%	7449 (1322) 96.9%	159138 (14016) 95.9%	118680* (185985) 79.4%	209369* (120490) 100.0%	487187* (191680) 92.9%
41	3841* (984) 86.9%	356* (199) 69.8%	...	4197 (1039) 85.1%	101715 (24969) 86.5%	61265* (41638) 75.1%	...	162979* (49897) 81.8%
42	13718 (1933) 68.5%	801* (232) 54.1%	49* (37) 59.4%	14568 (1961) 67.5%	312104 (46135) 64.0%	137995* (39041) 53.3%	54578* (44519) 72.9%	504677 (65060) 61.4%
45	2645* (811) 81.6%	590* (397) 99.9%	54* (37) 36.8%	3288* (981) 82.7%	59707 (14324) 77.0%	109332* (75829) 100.0%	60262* (33832) 22.8%	229300* (79813) 50.8%
48	13951 (2124) 94.9%	814 (168) 90.2%	18* (13) 52.4%	14783 (2177) 94.5%	409615 (82753) 96.2%	157867 (37866) 89.5%	46280* (33466) 66.0%	613762 (94600) 91.3%
49	7709 (1686) 93.8%	1266* (457) 68.0%	124* (65) 71.9%	9099 (1885) 88.8%	255669 (56422) 94.9%	265887* (127973) 62.5%	103105* (46434) 70.3%	624662* (161203) 74.2%
50	27511 (2408) 90.6%	1659* (433) 92.0%	...	29170 (2478) 90.7%	543317 (61720) 86.2%	239762* (62071) 84.7%	...	783080 (99944) 85.7%
51	6838 (1196) 75.0%	...	...	6838 (1196) 73.1%	143214* (37294) 77.4%	...	...	143214* (37294) 67.5%
55	18928 (3032) 100.0%	620* (491) 99.9%	...	19548 (3239) 100.0%	309045 (54796) 100.0%	98575* (80174) 100.0%	...	407620* (110347) 100.0%
72	19179 (2577) 93.0%	675* (190) 100.0%	13* (19) 100.0%	19868 (2625) 93.2%	355842 (53732) 93.6%	82220* (24190) 100.0%	10670* (15114) 100.0%	448732 (65821) 94.9%
73	15506 (1733) 93.6%	1202 (245) 80.7%	205* (85) 60.0%	16912 (1647) 91.9%	388384 (40214) 92.2%	274956 (51832) 78.6%	155816* (63317) 47.4%	819155 (69399) 74.5%
75	25854 (3865) 98.8%	59* (60) 99.7%	...	25913 (3871) 98.8%	410346 (61960) 99.3%	8238* (8380) 100.0%	...	418584 (62332) 99.3%
76	9742 (2197) 99.9%	87* (78) 70.8%	...	9829 (2202) 99.5%	177949 (29886) 99.7%	11669* (10488) 47.9%	...	189617 (32911) 93.5%
80	1638* (643) 57.7%	751* (226) 34.7%	378* (106) 18.3%	2768 (628) 39.2%	60571* (21524) 59.6%	199576* (59594) 37.3%	559672 (139890) 18.5%	819819 (141331) 22.4%
A11	417355 (7276) 93.4%	39767 (752) 80.3%	4508 (219) 47.8%	461631 (7669) 91.3%	10141711 (114322) 92.0%	7706324 (146834) 78.8%	4265527 (239266) 34.2%	22113562 (345312) 66.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.



**Analysis of Allergy/Sensitization Testing**

(see text on questionnaire item 22 for definitions and notes)

This sub-item was displayed on the questionnaire as:

Allergy/Sensitization	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
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(Note: Response categories are as shown in the display of question 22.)

Three analyses of the responses to the allergy/sensitization sub-item are presented.

- (1) Response 2, 4, or 5 - Provision of allergy/sensitization tests to all, production, or selected workers

The estimates of the plants which provide allergy/sensitization testing to all workers, production workers or selected workers, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-81 and III-82, and Tables III-69 and III-70.

Figure III-81 Allergy tests provided to all or selected workers  
(by major industrial group)

Figure III-82 Allergy tests provided to all or selected workers  
(by 2-digit SIC)

Table III-69 Number and percent of plants and employees in plants  
which provide allergy tests to all or selected workers  
(by major industry group)

Table III-70 Number and percent of plants and employees in plants  
which provide allergy tests to all or selected workers  
(by 2-digit SIC)

- (2) Response 1 or 3 - No provision of allergy/sensitization tests, or testing of management personnel only

The estimates of plants which either do not provide any allergy/sensitization tests or provide them only to management personnel, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-83 and III-84, and Tables III-71 and III-72.

Figure III-83 Allergy tests not provided or for management only  
(by major industrial group)

Figure III-84 Allergy tests not provided or for management only  
(by 2-digit SIC)

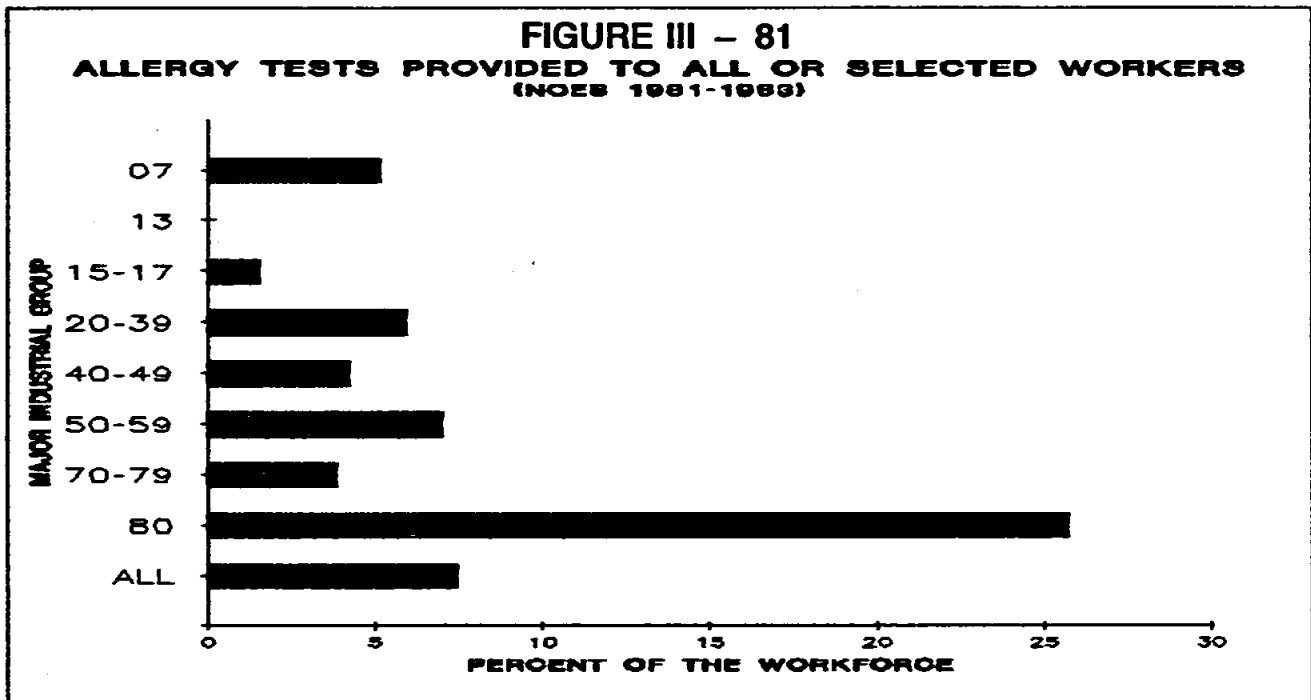
Table III-71 Number and percent of plants and employees in plants  
which provide no allergy tests or examine management  
only (by major industrial group)

Table III-72 Number and percent of plants and employees in plants  
which provide no allergy tests or examine management  
only (by 2-digit SIC)

**(3) Response 1, 2, 3, 4, or 5 - Provision of allergy/sensitization tests**

**The estimated proportions of plants and workers in those plants corresponding to each of the five possible responses to the allergy/sensitization inquiry are presented in Figure III-85.**

**Figure III-85 Provision of allergy tests**



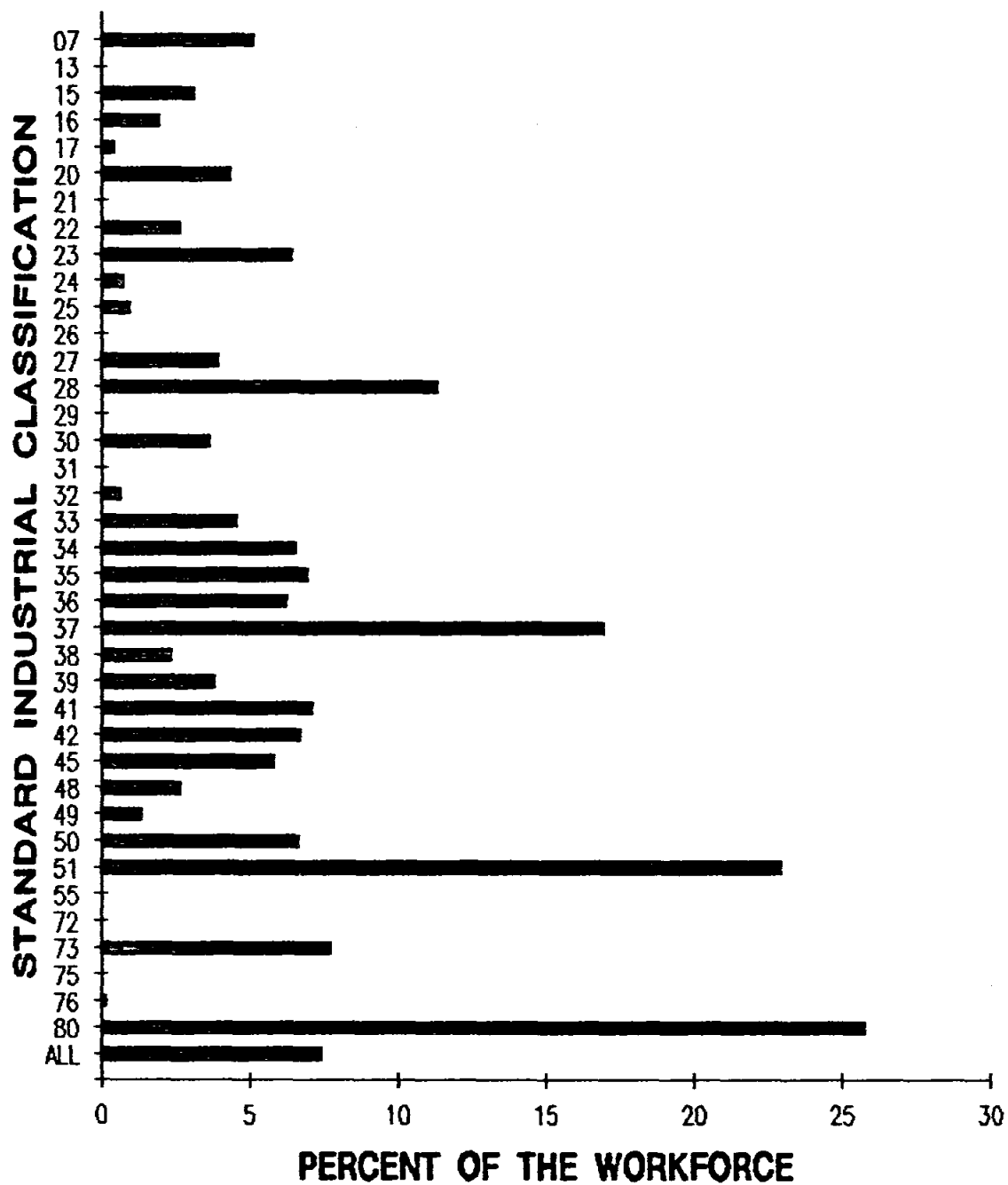
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-69

## NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE ALLERGY TESTS TO ALL OR SELECTED WORKERS

MAJOR GROUP	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	...	...	...	...	...	...	...	...
15-17	88* (88) .1%	117* (88) 2.8%	8* (7) 3.5%	214* (130) .2%	4905* (4762) .2%	15346* (11235) 2.1%	28989* (24290) 12.3%	49240* (26381) 1.6%
20-39	2263* (630) 1.5%	823* (261) 2.6%	448 (104) 7.1%	3534 (725) 1.8%	64915 (15106) 1.4%	185472* (62820) 2.9%	909219 (196491) 11.0%	1159605 (230553) 6.0%
40-49	2582* (673) 4.9%	171* (124) 2.9%	15* (17) 3.3%	2768 (658) 4.7%	70778* (20525) 4.9%	40865* (30054) 3.5%	23145* (23941) 4.0%	134788* (41568) 4.3%
50-59	1245* (516) 2.1%	381* (256) 14.3%	...	1626* (625) 2.7%	39089* (14180) 3.5%	70489* (46886) 17.2%	...	109578* (52210) 7.1%
70-79	178* (191) .2%	27* (34) 1.1%	101* (102) 28.6%	306* (263) .4%	9586* (10350) .7%	7960* (10308) 1.7%	68849* (71347) 20.3%	86395* (77903) 3.9%
80	70* (68) 2.5%	313* (108) 14.5%	529 (122) 25.7%	912 (146) 12.9%	5939* (5772) 5.8%	95632* (35069) 17.9%	841988 (177771) 27.9%	943559 (165643) 25.8%
ALL	6571 (1088) 1.5%	1830 (412) 3.7%	1102 (191) 11.7%	9504 (1215) 1.9%	200969 (32311) 1.8%	415765 (92251) 4.2%	1872189 (276523) 15.0%	2488923 (303053) 7.4%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

**FIGURE III - 82**  
**ALLERGY TESTS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1983)**



NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE ALLERGY TESTS TO ALL OR SELECTED WORKERS

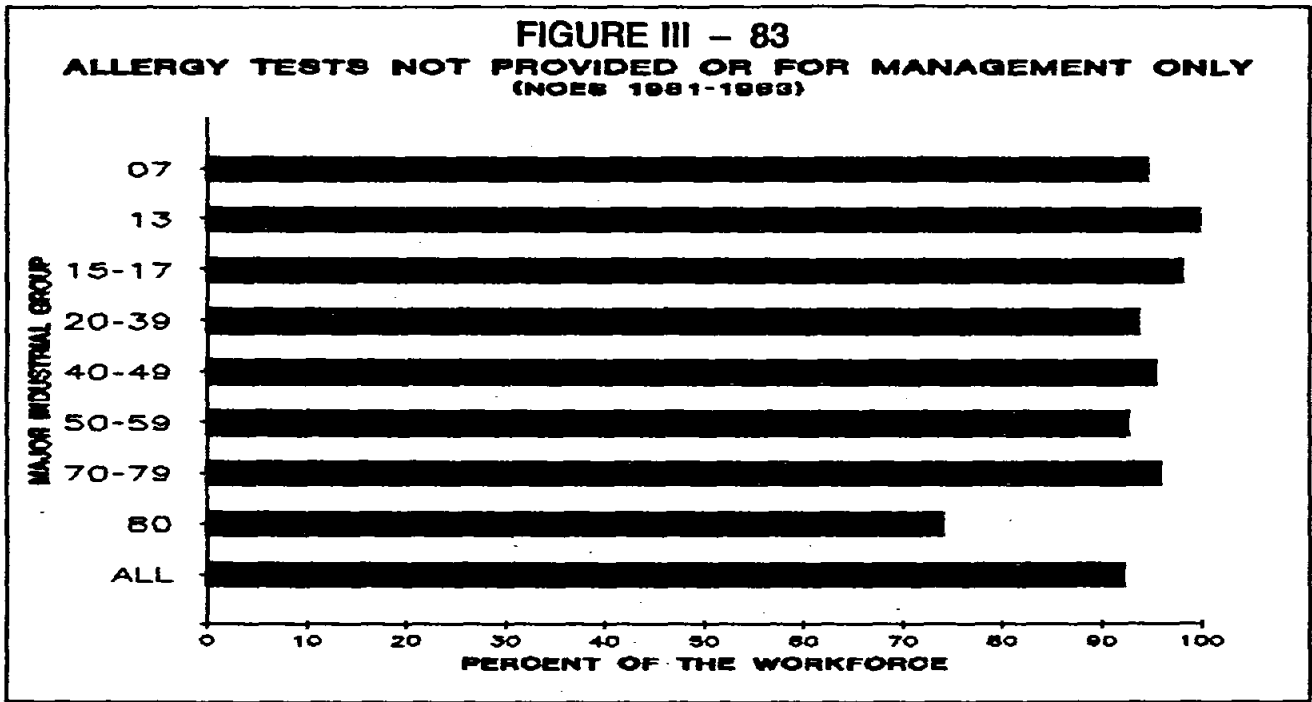
SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	144* (138) 2.6%	...	...	144* (138) 2.6%	5758* (5510) 5.6%	...	...	5758* (5510) 5.2%
13	...	...	...	...	...	...	...	...
15	...	...	8* (7) 6.2%	8* (7) .0%	...	...	28989* (24290) 21.5%	28989* (24290) 3.2%
16	81* (90) .7%	57* (46) 5.1%	...	138* (107) 1.1%	4348* (4848) 1.5%	7451* (5758) 3.6%	...	11798* (8028) 2.0%
17	8* (10) .0%	60* (68) 3.1%	...	68* (70) .1%	557* (729) .0%	7895* (8994) 2.4%	...	8453* (9125) .5%
20	153* (145) 1.3%	136* (86) 4.2%	64* (42) 11.5%	353* (174) 2.3%	6438* (6087) 1.7%	25858* (25251) 3.8%	35973* (23659) 7.3%	68269* (28739) 4.4%
21	...	...	...	...	...	...	...	...
22	...	75* (64) 4.7%	10* (14) 3.3%	85* (64) 1.8%	...	11812* (10058) 3.4%	7274* (10766) 2.8%	19086* (13648) 2.7%
23	100* (101) .8%	...	58* (43) 24.1%	158* (109) 1.0%	4586* (4632) 1.1%	...	76627* (48463) 36.8%	81213* (48878) 6.5%
24	96* (75) .9%	...	...	96* (75) .8%	4620* (3579) 1.5%	...	...	4620* (3579) .8%
25	...	15* (29) 1.4%	...	15* (29) .3%	...	4952* (9618) 1.9%	...	4952* (9618) 1.0%
26	...	...	...	...	...	...	...	...
27	886* (489) 4.9%	46 (10) 2.4%	27* (34) 8.5%	959* (487) 4.7%	19657* (10900) 4.1%	7456* (2475) 2.1%	20669* (26316) 6.0%	47782* (27332) 4.0%
28	...	168* (88) 14.5%	23* (17) 6.1%	192* (91) 2.5%	...	49963* (25376) 19.2%	54335* (29115) 11.4%	104298* (40687) 11.4%
29	...	...	...	...	...	...	...	...
30	51* (47) .8%	36* (36) 2.3%	11* (14) 4.8%	98* (84) 1.2%	2954* (2702) 1.3%	7475* (7432) 2.5%	17744* (14461) 7.6%	28173* (19963) 3.7%
31	...	...	...	...	...	...	...	...
32	227* (224) 2.6%	...	...	227* (224) 2.3%	3944* (3179) 1.7%	...	...	3944* (3179) .7%
33	...	...	8 (1) 2.4%	8 (1) .1%	...	...	49767 (8734) 8.0%	49767 (8734) 4.6%

NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983)

TABLE NO. III-70 (CONTINUED)

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	484* (258) 2.6%	84* (49) 2.7%	65* (32) 18.7%	632* (252) 2.9%	9188* (4533) 1.7%	13122* (7689) 2.2%	76826* (51855) 21.9%	99136* (50107) 6.6%
35	177* (117) .8%	16* (16) .5%	52* (25) 6.6%	245* (122) .9%	7047* (4570) 1.2%	6501* (6411) 1.0%	152396* (47854) 13.7%	165944* (49084) 7.0%
36	...	66* (102) 2.4%	72* (52) 9.2%	138* (128) 1.3%	...	15288* (21528) 2.8%	109064* (71732) 9.2%	124353* (78239) 6.3%
37	34* (75) .8%	23* (26) 1.9%	58* (29) 13.9%	114* (89) 2.7%	1954* (4362) 1.5%	8786* (10108) 3.7%	308542* (179061) 20.4%	319281* (178812) 17.0%
38	55* (57) 2.1%	72* (57) 7.5%	...	127* (87) 3.1%	4527* (4673) 4.3%	14054* (11773) 7.2%	...	18581* (13020) 2.4%
39	...	87* (177) 10.9%	...	87* (177) 1.1%	...	20205* (36515) 13.5%	...	20205* (36515) 3.9%
41	671* (333) 15.2%	...	...	671* (333) 13.6%	14346* (7734) 12.2%	...	...	14346* (7734) 7.2%
42	1368* (517) 6.8%	55* (40) 3.7%	2* (3) 3.0%	1426* (519) 6.6%	39602* (16711) 8.1%	14779* (10898) 5.7%	1430* (1510) 1.9%	55811* (20744) 6.8%
45	86* (129) 2.7%	...	13* (16) 8.8%	99* (136) 2.5%	4833* (7238) 6.2%	...	21715* (23083) 8.2%	26548* (26484) 5.9%
48	...	88* (81) 9.7%	...	88* (81) .6%	...	18455* (17704) 10.5%	...	18455* (17704) 2.7%
49	456* (414) 5.6%	...	...	456* (414) 4.5%	11997* (8985) 4.5%	...	...	11997* (8985) 1.4%
50	411* (268) 1.4%	144* (143) 8.0%	...	554* (276) 1.7%	17363* (10376) 2.8%	43477* (43050) 15.3%	...	60840* (41825) 6.7%
51	835* (375) 9.2%	237* (237) 100.0%	...	1072* (505) 11.5%	21726* (9735) 11.7%	27013* (27013) 100.0%	...	48738* (31816) 23.0%
55	...	...	...	...	...	...	...	...
72	...	...	...	...	...	...	...	...
73	169* (191) 1.0%	27* (34) 1.8%	101* (102) 29.7%	297* (263) 1.6%	9103* (10303) 2.2%	7960* (10308) 2.3%	68849* (71347) 20.9%	85912* (77886) 7.8%
75	...	...	...	...	...	...	...	...
76	9* (8) .1%	...	...	9* (8) .1%	483* (423) .3%	...	...	483* (423) .2%
80	70* (68) 2.5%	313* (108) 14.5%	529 (122) 25.7%	912 (146) 12.9%	5939* (5772) 5.8%	95632* (35069) 17.9%	841988 (177771) 27.9%	943559 (165643) 25.8%
A11	6571 (1082) 1.5%	1803 (287) 3.6%	1102 (173) 11.7%	9476 (1213) 1.9%	200969 (29538) 1.8%	408134 (66798) 4.2%	1872189 (178009) 15.0%	2481293 (159153) 7.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.



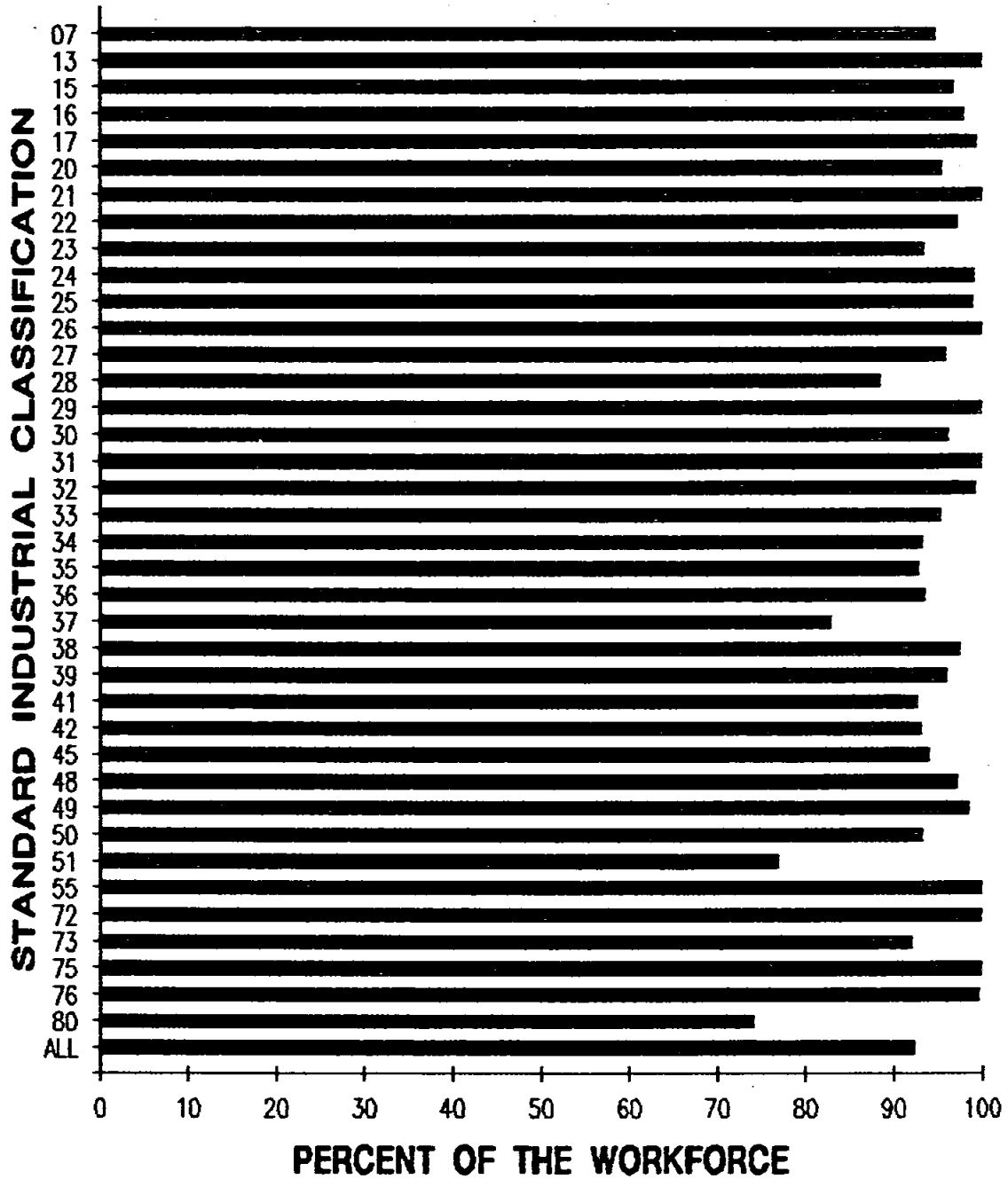
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-71

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
PROVIDE NO ALLERGY TESTS OR TEST MANAGEMENT ONLY

MAJOR GROUP	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8597 (1933) 100.0%	1019* (331) 100.0%	46* (52) 100.0%	9662 (2132) 100.0%	208958 (38479) 100.0%	173943* (58021) 100.0%	31383* (35291) 100.0%	414284 (101840) 100.0%
15-17	94244 (2396) 99.9%	4028 (517) 97.2%	234* (133) 96.7%	98506 (2455) 99.8%	2093988 (18761) 99.8%	721753 (101933) 97.9%	207068* (98298) 87.7%	3022809 (137338) 98.4%
20-39	150980 (2460) 98.5%	30931 (1863) 97.4%	5822 (158) 92.8%	187732 (3477) 98.2%	4550780 (40467) 98.6%	6195342 (342586) 97.1%	7356102 (223153) 89.0%	18102224 (484293) 94.0%
40-49	50570 (2979) 95.1%	5673 (1020) 97.1%	453* (130) 96.7%	56696 (3481) 95.3%	1363091 (106212) 95.1%	1112449 (222191) 96.5%	550599 (106756) 96.0%	3026138 (291946) 95.7%
50-59	57146 (3692) 97.9%	2278* (596) 85.7%	...	59425 (3837) 97.3%	1085285 (82124) 96.5%	338337* (90994) 82.8%	...	1423623 (125455) 92.9%
70-79	72956 (3595) 99.8%	2320 (334) 98.9%	253* (95) 71.5%	75529 (3542) 99.6%	1383588 (65782) 99.3%	456552 (63421) 98.3%	270711* (94762) 79.7%	2110851 (108504) 96.1%
80	2769* (829) 97.5%	1853 (261) 85.6%	1532 (267) 74.3%	6155 (810) 87.1%	95705 (22092) 94.2%	438852 (66029) 82.1%	2180688 (333659) 72.1%	2715246 (343400) 74.2%
ALL	442681 (7350) 98.5%	48173 (2330) 96.3%	8340 (377) 88.3%	499193 (8064) 98.1%	10879320 (164881) 98.2%	9444237 (444069) 95.8%	10596550 (438646) 85.0%	30920108 (703775) 92.6%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

**FIGURE III - 84**  
**ALLERGY TESTS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
 (NOES 1981-1993)





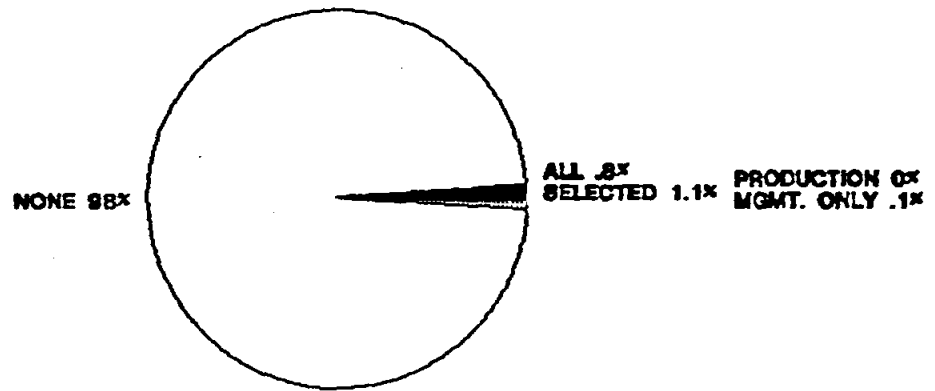
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO ALLERGY TESTS OR TEST MANAGEMENT ONLY

SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5419* (1542) 97.4%	70* (67) 100.0%	...	5490* (1529) 97.5%	97924* (29580) 94.4%	7009* (6680) 100.0%	...	104934* (29294) 94.8%
13	8597 (1933) 100.0%	1019* (331) 100.0%	46* (52) 100.0%	9662 (2132) 100.0%	208958 (38479) 100.0%	173943* (58021) 100.0%	31383* (35291) 100.0%	414284 (101840) 100.0%
15	24916 (1781) 100.0%	1107 (197) 100.0%	127* (98) 93.9%	26149 (1838) 100.0%	562888 (44936) 100.0%	198218 (38188) 100.0%	105810* (68073) 78.5%	866916 (86335) 96.8%
16	11204 (1425) 99.3%	1062 (193) 94.9%	107* (67) 100.0%	12373 (1426) 98.9%	279742 (45788) 98.5%	200308 (42925) 96.4%	101258* (53561) 100.0%	581308 (87454) 98.0%
17	58124 (1699) 100.0%	1859 (423) 96.9%	...	59983 (1768) 99.9%	1251358 (31279) 100.0%	323227* (82340) 97.6%	...	1574585 (84860) 99.5%
20	11259 (641) 98.7%	3080 (481) 95.8%	495 (111) 88.6%	14834 (832) 97.7%	382000 (7409) 98.3%	647922 (104947) 96.2%	455802 (98439) 92.7%	1485724 (115671) 95.6%
21	30* (43) 100.0%	...	79* (56) 99.6%	109* (65) 100.0%	1866* (2685) 100.0%	...	112133* (67572) 100.0%	113999* (66861) 100.0%
22	2932 (393) 100.0%	1513 (142) 95.3%	289* (75) 96.6%	4734 (361) 98.2%	106032 (5745) 100.0%	335261 (27401) 96.6%	253819* (91536) 97.2%	695112 (86578) 97.3%
23	12414 (758) 99.2%	3102 (163) 100.0%	184* (75) 76.0%	15700 (765) 99.0%	419318 (7336) 98.9%	609922 (29811) 100.0%	131810* (60544) 63.2%	1161050 (66712) 93.5%
24	10615 (685) 99.7%	1148 (128) 100.0%	104* (74) 100.0%	11867 (711) 99.2%	299026 (24381) 98.5%	183585 (22297) 100.0%	92355* (52501) 100.0%	574966 (74858) 99.2%
25	4164 (491) 100.0%	1047 (148) 98.6%	119* (75) 99.6%	5330 (496) 99.7%	139109 (19535) 100.0%	251491 (41227) 98.7%	122998* (62394) 100.0%	513598 (77096) 99.0%
26	4113 (781) 100.0%	1569 (245) 100.0%	214* (73) 100.0%	5896 (777) 100.0%	137654 (19252) 100.0%	281476 (49372) 100.0%	206864* (65220) 100.0%	625994 (90546) 100.0%
27	17232 (1164) 95.7%	1827 (163) 97.6%	290* (99) 91.6%	19348 (1148) 95.3%	458474 (15960) 95.9%	353447 (47457) 97.9%	325081 (73777) 94.0%	1137002 (101946) 96.0%
28	6173 (428) 100.0%	992 (85) 85.5%	356 (70) 93.8%	7522 (375) 97.5%	180739 (4348) 100.0%	210868 (28406) 80.8%	422006 (97925) 88.6%	813613 (104462) 88.6%
29	1011* (404) 100.0%	293* (125) 100.0%	101* (42) 100.0%	1405* (457) 100.0%	40980* (17325) 100.0%	63255* (21394) 100.0%	117545* (70259) 100.0%	221781* (81654) 100.0%
30	6660 (1161) 99.2%	1501 (373) 97.7%	213* (76) 95.1%	8374 (1313) 98.8%	222050 (28157) 98.7%	287055* (79552) 97.5%	215903* (74998) 92.4%	725008 (108875) 96.3%
31	931* (343) 100.0%	569 (131) 100.0%	25* (24) 100.0%	1525 (372) 100.0%	24888* (7207) 100.0%	135459* (34334) 100.0%	15664* (16901) 100.0%	176011 (38675) 100.0%
32	8571 (1100) 97.4%	1012 (142) 100.0%	184* (71) 99.9%	9767 (1138) 97.7%	233216 (15498) 98.3%	208984 (30484) 100.0%	128993* (49687) 100.0%	571193 (45147) 99.3%
33	4134 (468) 100.0%	1468 (138) 100.0%	329 (62) 97.6%	5931 (478) 99.9%	138468 (10157) 100.0%	311081 (30513) 100.0%	571732 (76867) 92.0%	1021280 (77288) 95.4%

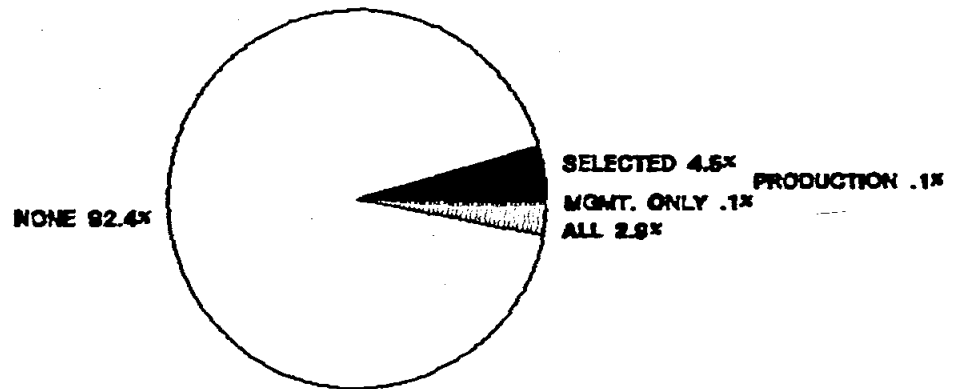
SIC CODE					EMPLOYEES			
	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	18037 (1054) 97.4%	3038 (145) 97.3%	281* (75) 81.2%	21356 (1047) 97.1%	545698 (10728) 98.3%	583563 (25514) 97.8%	274229* (73923) 78.1%	1403490 (85583) 93.4%
35	22473 (1080) 99.2%	3389 (131) 99.5%	732 (79) 93.3%	26594 (1105) 99.1%	599753 (8872) 98.8%	654619 (6411) 99.0%	960537 (143641) 86.3%	2214909 (142390) 93.0%
36	7104 (611) 100.0%	2619 (154) 97.6%	715 (157) 90.9%	10439 (609) 98.7%	230488 (11906) 100.0%	537374 (21538) 97.2%	1073398 (165566) 90.8%	1841260 (151816) 93.7%
37	3940 (847) 99.2%	1167 (112) 98.1%	358 (80) 86.0%	5465 (813) 98.0%	125068 (16629) 98.5%	230399 (30858) 96.3%	1205466 (202271) 79.6%	1560933 (194615) 83.0%
38	2634 (517) 98.0%	885 (105) 92.5%	416* (139) 99.9%	3935 (579) 96.9%	100075 (13962) 95.7%	180339 (22459) 92.8%	460397* (129998) 100.0%	740811 (137708) 97.6%
39	6553 (659) 100.0%	711* (1347) 89.1%	338* (216) 100.0%	7602 (1453) 98.9%	165877 (13792) 100.0%	129244* (248324) 86.5%	209369* (120490) 100.0%	504490* (240041) 96.1%
41	3749* (959) 84.8%	510* (178) 100.0%	...	4259 (1015) 86.4%	103287 (24337) 87.8%	81542* (35755) 100.0%	...	184829* (46898) 92.8%
42	18658 (2160) 93.2%	1427 (314) 96.3%	79* (53) 96.5%	20164 (2214) 93.4%	448201 (48979) 91.9%	244042 (55570) 94.3%	73400* (49222) 98.1%	765644 (76115) 93.2%
45	3155* (940) 97.3%	590* (397) 99.9%	135* (53) 91.5%	3879* (1100) 97.5%	72664* (21217) 93.8%	109332* (75829) 100.0%	242540* (81247) 91.8%	424536* (110286) 94.1%
48	14702 (2092) 100.0%	814 (168) 90.2%	34* (21) 99.0%	15549 (2136) 99.4%	425758 (85441) 100.0%	157867 (37866) 89.5%	70083* (43687) 100.0%	653708 (102234) 97.3%
49	7759 (1693) 94.4%	1862* (567) 100.0%	173* (99) 99.8%	9794 (1888) 95.6%	257373 (56062) 95.5%	425470* (151076) 100.0%	146565* (65566) 100.0%	829407 (182939) 98.6%
50	29939 (2443) 98.6%	1659* (433) 92.0%	...	31598 (2502) 98.3%	612941 (73112) 97.2%	239762* (62071) 84.7%	...	852704 (107234) 93.3%
51	8279 (1184) 90.8%	...	...	8279 (1184) 88.5%	163299 (39390) 88.3%	...	...	163299 (39390) 77.0%
55	18928 (3032) 100.0%	620* (491) 99.9%	...	19548 (3239) 100.0%	309045 (54796) 100.0%	98575* (80174) 100.0%	...	407620* (110347) 100.0%
72	20629 (2414) 100.0%	675* (190) 100.0%	13* (19) 100.0%	21318 (2465) 100.0%	380020 (49376) 100.0%	82220* (24190) 100.0%	10670* (15114) 100.0%	472910 (62008) 100.0%
73	16405 (1703) 99.0%	1462 (229) 98.2%	240* (88) 70.3%	18107 (1672) 98.4%	412345 (42234) 97.8%	341753 (51511) 97.7%	260041* (90156) 79.1%	1014138 (106753) 92.2%
75	26180 (3850) 100.0%	59* (60) 99.7%	...	26239 (3855) 100.0%	413275 (61726) 100.0%	8238* (8380) 100.0%	...	421513 (62099) 100.0%
76	9742 (2197) 99.9%	123* (94) 100.0%	...	9865 (2218) 99.9%	177949 (29886) 99.7%	24341* (19716) 100.0%	...	202290 (40598) 99.8%
80	2769* (829) 97.5%	1853 (261) 85.6%	1532 (267) 74.3%	6155 (810) 87.1%	95705 (22092) 94.2%	438852 (66029) 82.1%	2180688 (333659) 72.1%	2715246 (343400) 74.2%
All	440134 (6832) 98.5%	47749 (658) 96.4%	8323 (374) 88.3%	496207 (7021) 98.1%	10823511 (65250) 98.2%	9365647 (96803) 95.8%	10587545 (509757) 85.0%	30776704 (550465) 92.5%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

**FIGURE III - 85**  
**PROVISION OF ALLERGY TESTS**  
**(NOES 1981-1983)**



**PLANTS**



**WORKERS**

**Analysis of Immunization Provision**

(see text on questionnaire item 22 for definitions and notes)

This sub-item was displayed on the questionnaire as:

Immunizations (flu, etc.)                    1                    2                    3                    4                    5

(Note: Response categories are as shown in the display of question 22.)

Three analyses of the responses to the immunization sub-item are presented.

- (1) Response 2, 4, or 5 - Provision of immunizations to all, production, or selected workers

The estimates of the plants which provide immunizations to all workers, production workers or selected workers, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-86 and III-87, and Tables III-73 and III-74.

Figure III-86        Immunizations provided to all or selected workers  
                                  (by major industrial group)

Figure III-87        Immunizations provided to all or selected workers  
                                  (by 2-digit SIC)

Table III-73         Number and percent of plants and employees in plants  
                                  which provide immunizations to all or selected workers  
                                  (by major industry group)

Table III-74         Number and percent of plants and employees in plants  
                                  which provide immunizations to all or selected workers  
                                  (by 2-digit SIC)

- (2) Response 1 or 3 - No provision of immunizations, or testing of management personnel only

The estimates of plants which either do not provide any immunizations or provide them only to management personnel, and workers in those plants (by number and proportion of the totals) are displayed in Figures III-88 and III-89, and Tables III-75 and III-76.

Figure III-88        Immunizations not provided or for management only  
                                  (by major industrial group)

Figure III-89        Immunizations not provided or for management only  
                                  (by 2-digit SIC)

Table III-75         Number and percent of plants and employees in plants  
                                  which provide no immunizations or immunize management  
                                  only (by major industrial group)

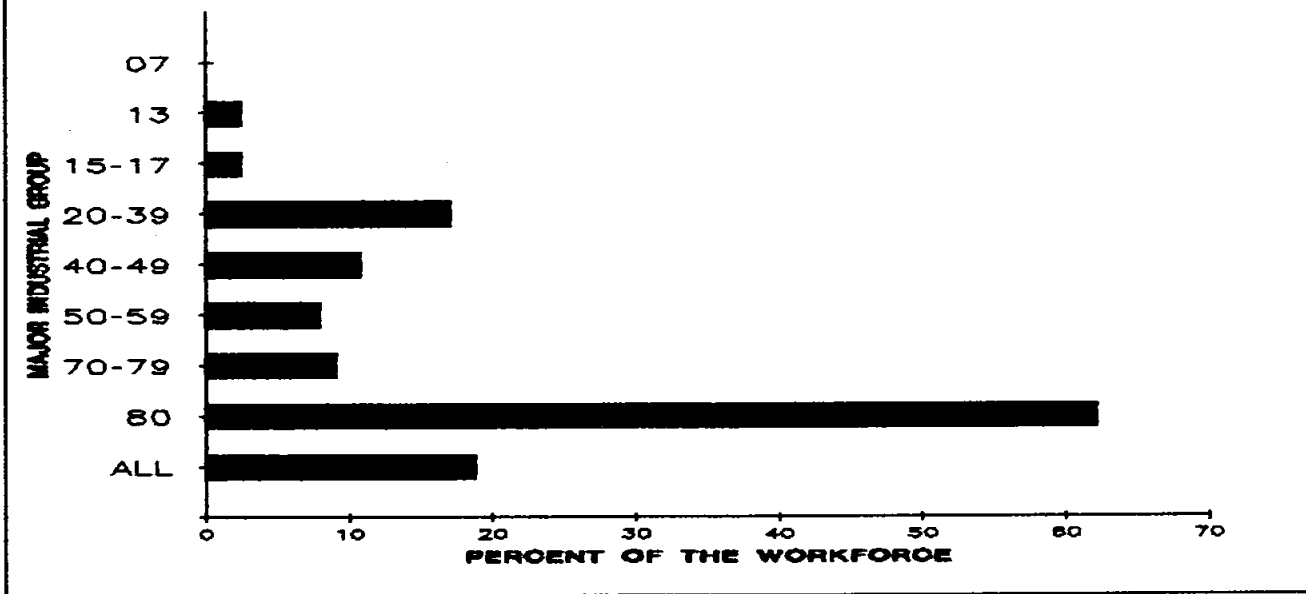
Table III-76         Number and percent of plants and employees in plants  
                                  which provide no immunizations or immunize management  
                                  only (by 2-digit SIC)

**(3) Response 1, 2, 3, 4, or 5 - Provision of immunization**

**The estimated proportions of plants and workers in those plants corresponding to each of the five possible responses to the immunization inquiry are presented in Figure III-90.**

**Figure III-90 Provision of immunizations**

**FIGURE III - 86**  
**IMMUNIZATIONS PROVIDED TO ALL OR SELECTED WORKERS**  
**(NOES 1981-1988)**



NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-73

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
 PROVIDE IMMUNIZATIONS TO ALL OR SELECTED WORKERS

MAJOR GROUP	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	
07	...	...	...	...	...	...	...	...
13	60* (65) .7%	32* (29) 3.1%	...	92* (71) 1.0%	3743* (4061) 1.8%	7071* (6377) 4.1%	...	10814* (7422) 2.6%
15-17	144* (149) .2%	218* (129) 5.3%	8* (7) 3.5%	371* (192) .4%	5057* (5221) .2%	44639* (28146) 6.1%	28989* (24290) 12.3%	78685* (37245) 2.6%
20-39	3001 (538) 2.0%	2582 (412) 8.1%	1598 (198) 25.5%	7181 (786) 3.8%	119395 (18802) 2.6%	628456 (91324) 9.8%	2556260 (243782) 30.9%	3304111 (261817) 17.2%
40-49	5175 (1194) 9.7%	334* (140) 5.7%	94* (72) 20.1%	5604 (1175) 9.4%	127900 (27316) 8.9%	77922* (28674) 6.8%	140232* (76134) 24.4%	346054* (87780) 10.9%
50-59	1413* (551) 2.4%	404* (252) 15.2%	...	1817* (647) 3.0%	47487* (17162) 4.2%	77167* (43219) 18.9%	...	124654* (49127) 8.1%
70-79	730* (636) 1.0%	257* (111) 10.9%	106* (106) 30.0%	1094* (660) 1.4%	28003* (23867) 2.0%	59345* (23688) 12.8%	115526* (83683) 34.0%	202874* (90952) 9.2%
80	706* (336) 24.9%	1049 (207) 48.4%	1354 (249) 65.7%	3109 (496) 44.0%	28844* (8819) 28.4%	251975 (47372) 47.1%	1998606 (313050) 66.1%	2279425 (318902) 62.3%
ALL	11230 (1601) 2.5%	4876 (571) 9.8%	3161 (343) 33.5%	19267 (1773) 3.8%	360428 (45666) 3.3%	1146576 (121113) 11.6%	4839613 (413303) 38.8%	6346617 (435981) 19.0%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
 ...No facilities observed.

NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-74

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE IMMUNIZATIONS TO ALL OR SELECTED WORKERS

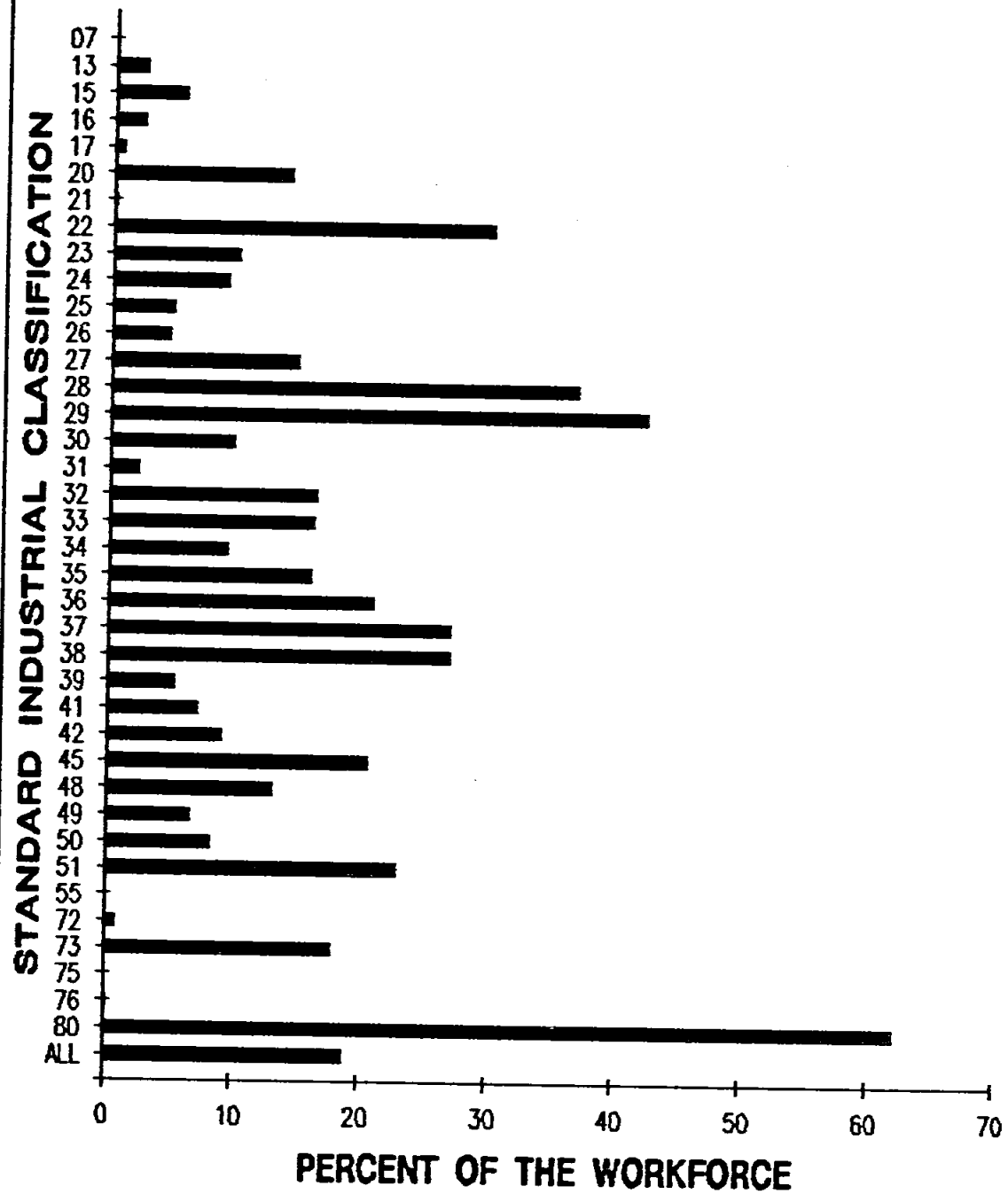
SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	...	...	...	...	...	...	...	...
13	60* (65) .7%	32* (29) 3.1%	...	92* (71) 1.0%	3743* (4061) 1.8%	7071* (6377) 4.1%	...	10814* (7422) 2.6%
15	...	56* (57) 5.0%	8* (7) 6.2%	64* (58) .2%	...	21769* (22236) 11.0%	28989* (24290) 21.5%	50758* (35137) 5.7%
16	...	103* (73) 9.2%	...	103* (73) .8%	...	14975* (10754) 7.2%	...	14975* (10754) 2.5%
17	144* (149) .2%	60* (68) 3.1%	...	204* (164) .3%	5057* (5221) .4%	7895* (8994) 2.4%	...	12952* (10371) .8%
20	373* (181) 3.3%	344* (149) 10.7%	144* (57) 25.8%	861 (213) 5.7%	18492* (9949) 4.8%	94639* (56019) 14.0%	106208* (39161) 21.6%	219339 (49010) 14.1%
21	4* (6) 14.6%	...	...	4* (6) 4.0%	258* (345) 13.8%	...	...	258* (345) .2%
22	27* (56) .9%	241* (125) 15.2%	153* (70) 51.2%	422* (167) 8.6%	1944* (3944) 1.8%	62950* (27571) 18.1%	149920* (71308) 57.4%	214815* (85200) 30.1%
23	318* (188) 2.5%	138* (77) 4.4%	58* (43) 24.1%	514* (207) 3.2%	17643* (9872) 4.2%	30707* (16131) 5.0%	76627* (48463) 36.8%	124978* (54235) 10.1%
24	...	148* (67) 12.9%	12* (10) 11.5%	160* (67) 1.3%	...	26454* (13164) 14.4%	27621* (22969) 29.9%	54075* (25163) 9.3%
25	...	73* (74) 6.8%	...	73* (74) 1.4%	...	25739* (26091) 10.0%	...	25739* (26091) 5.0%
26	91* (78) 2.2%	43* (41) 2.8%	7* (6) 3.2%	142* (94) 2.4%	7844* (6542) 5.7%	13456* (12658) 4.8%	7945* (7094) 3.8%	29245* (17954) 4.7%
27	537* (333) 3.0%	282* (132) 15.1%	83* (46) 26.2%	902* (396) 4.4%	13170* (8451) 2.8%	54694* (29013) 15.2%	107452* (56230) 31.1%	175316* (66669) 14.8%
28	360* (139) 5.8%	210* (99) 18.1%	203* (66) 53.3%	773* (229) 10.0%	16543* (6807) 9.2%	68334* (34183) 26.2%	253791* (72016) 53.3%	338669* (86599) 36.9%
29	...	81* (26) 27.5%	63* (33) 62.5%	144* (46) 10.2%	...	21657* (7102) 34.2%	72301* (43442) 61.5%	93958* (44328) 42.4%
30	...	...	55* (27) 24.5%	55* (27) .6%	...	...	74541* (37383) 31.9%	74541* (37383) 9.9%
31	...	39* (41) 6.9%	...	39* (41) 2.6%	...	4203* (4407) 3.1%	...	4203* (4407) 2.4%
32	294* (231) 3.3%	88* (112) 8.7%	96* (54) 52.2%	478* (235) 4.8%	8686* (6075) 3.7%	19280* (23907) 9.2%	66755* (36399) 51.8%	94721* (40213) 16.5%
33	74* (92) 1.8%	145* (86) 9.9%	83* (39) 24.7%	303* (155) 5.1%	5942* (7338) 4.3%	29336* (18606) 9.4%	139420* (36284) 22.4%	174698 (41594) 16.3%

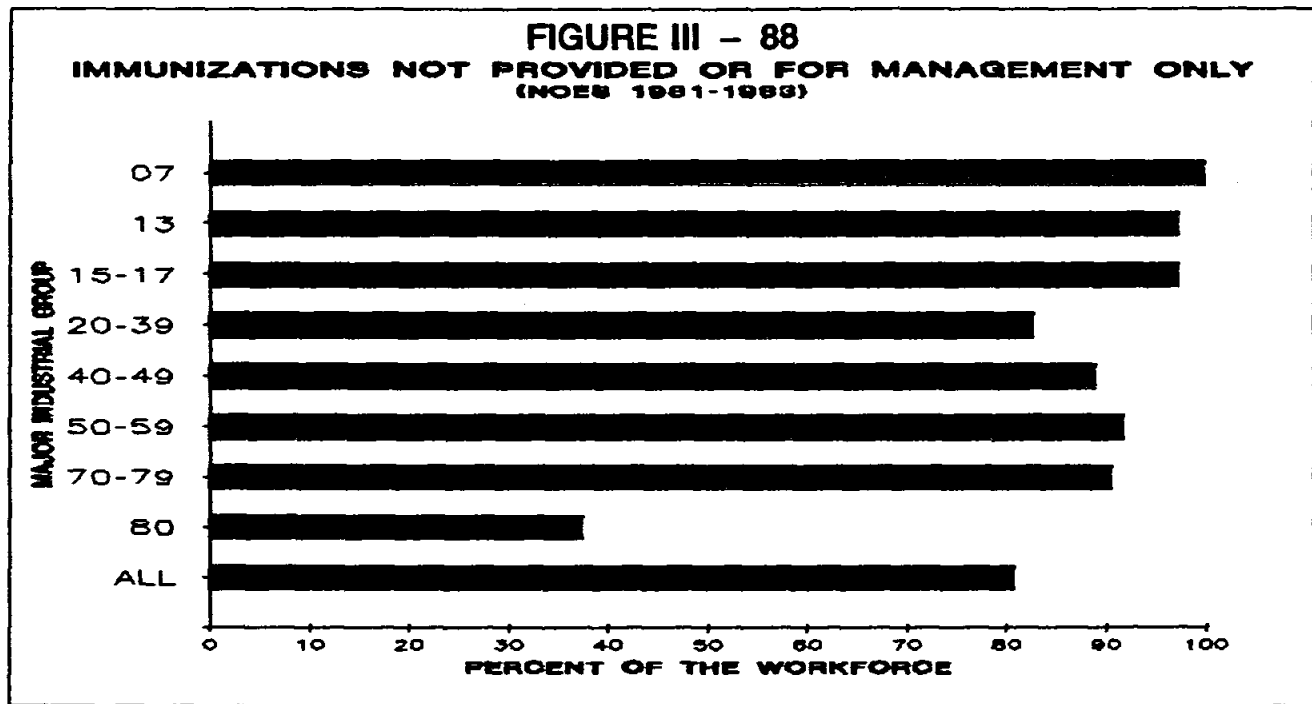
SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL
34	469* (245) 2.5%	219* (86) 7.0%	41* (25) 11.8%	729* (270) 3.3%	12402* (5064) 2.2%	63125* (27374) 10.6%	66821* (33204) 19.0%	142348* (40251) 9.5%
35	364* (203) 1.6%	99* (57) 2.9%	231* (65) 29.4%	694* (230) 2.6%	9990* (5088) 1.6%	21686* (11579) 3.3%	348957 (74041) 31.4%	380632 (77456) 16.0%
36	...	149* (151) 5.5%	177* (64) 22.5%	326* (194) 3.1%	...	36396* (33476) 6.6%	377160* (157076) 31.9%	413556* (171813) 21.0%
37	34* (75) .8%	38* (39) 3.2%	77 (19) 18.6%	149* (83) 2.7%	1954* (4362) 1.5%	4550* (4650) 1.9%	502333* (169450) 33.2%	508837* (169763) 27.1%
38	55* (57) 2.1%	136* (66) 14.2%	115* (74) 27.6%	306* (128) 7.5%	4527* (4673) 4.3%	22728* (12826) 11.7%	178405* (106388) 38.8%	205561* (107402) 27.1%
39	...	109* (173) 13.7%	...	109* (173) 1.4%	...	28521* (35380) 19.1%	...	28521* (35380) 5.4%
41	671* (333) 15.2%	...	...	671* (333) 13.6%	14346* (7734) 12.2%	...	...	14346* (7734) 7.2%
42	2033* (612) 10.2%	88* (50) 6.0%	...	2121* (621) 9.8%	52407* (16084) 10.7%	23378* (13273) 9.0%	...	75785* (23082) 9.2%
45	229* (195) 7.1%	...	45* (25) 30.3%	273* (196) 6.9%	8394* (8025) 10.8%	...	84778* (58270) 32.1%	93172* (57568) 20.7%
48	751* (722) 5.1%	115* (79) 12.7%	19* (16) 56.8%	885* (713) 5.7%	16143* (14712) 3.8%	35805* (24531) 20.3%	37029* (29526) 52.8%	88977* (37501) 13.2%
49	893* (599) 10.9%	104* (94) 5.6%	30* (72) 17.6%	1027* (647) 10.0%	27033* (17897) 10.0%	11108* (10056) 2.6%	18424* (43651) 12.6%	56566* (55256) 6.7%
50	578* (325) 1.9%	167* (125) 9.2%	...	745* (322) 2.3%	25761* (13724) 4.1%	50155* (37774) 17.7%	...	75915* (37140) 8.3%
51	835* (375) 9.2%	237* (237) 100.0%	...	1072* (505) 11.5%	21726* (9735) 11.7%	27013* (27013) 100.0%	...	48738* (31816) 23.0%
55	...	...	...	...	...	...	...	...
72	485* (570) 2.4%	...	...	485* (570) 2.3%	4853* (5703) 1.3%	...	...	4853* (5703) 1.0%
73	236* (236) 1.4%	257* (111) 17.2%	106* (106) 31.2%	599* (299) 3.3%	22666* (22657) 5.4%	59345* (23688) 17.0%	115526* (83683) 35.1%	197537* (90632) 18.0%
75	...	...	...	...	...	...	...	...
76	9* (8) .1%	...	...	9* (8) .1%	483* (423) .3%	...	...	483* (423) .2%
80	706* (336) 24.9%	1049 (207) 48.4%	1354 (249) 65.7%	3109 (496) 44.0%	28844* (8819) 28.4%	251975 (47372) 47.1%	1998606 (313050) 66.1%	2279425 (318902) 62.3%
A11	10632 (1721) 2.4%	4849 (492) 9.8%	3161 (281) 33.5%	18641 (1669) 3.7%	350850 (44639) 3.2%	1138945 (95466) 11.7%	4839613 (361868) 38.8%	6329408 (378526) 19.0%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.



**FIGURE III - 87**  
**IMMUNIZATIONS PROVIDED TO ALL OR SELECTED WORKERS**  
 (NOES 1981-1983)





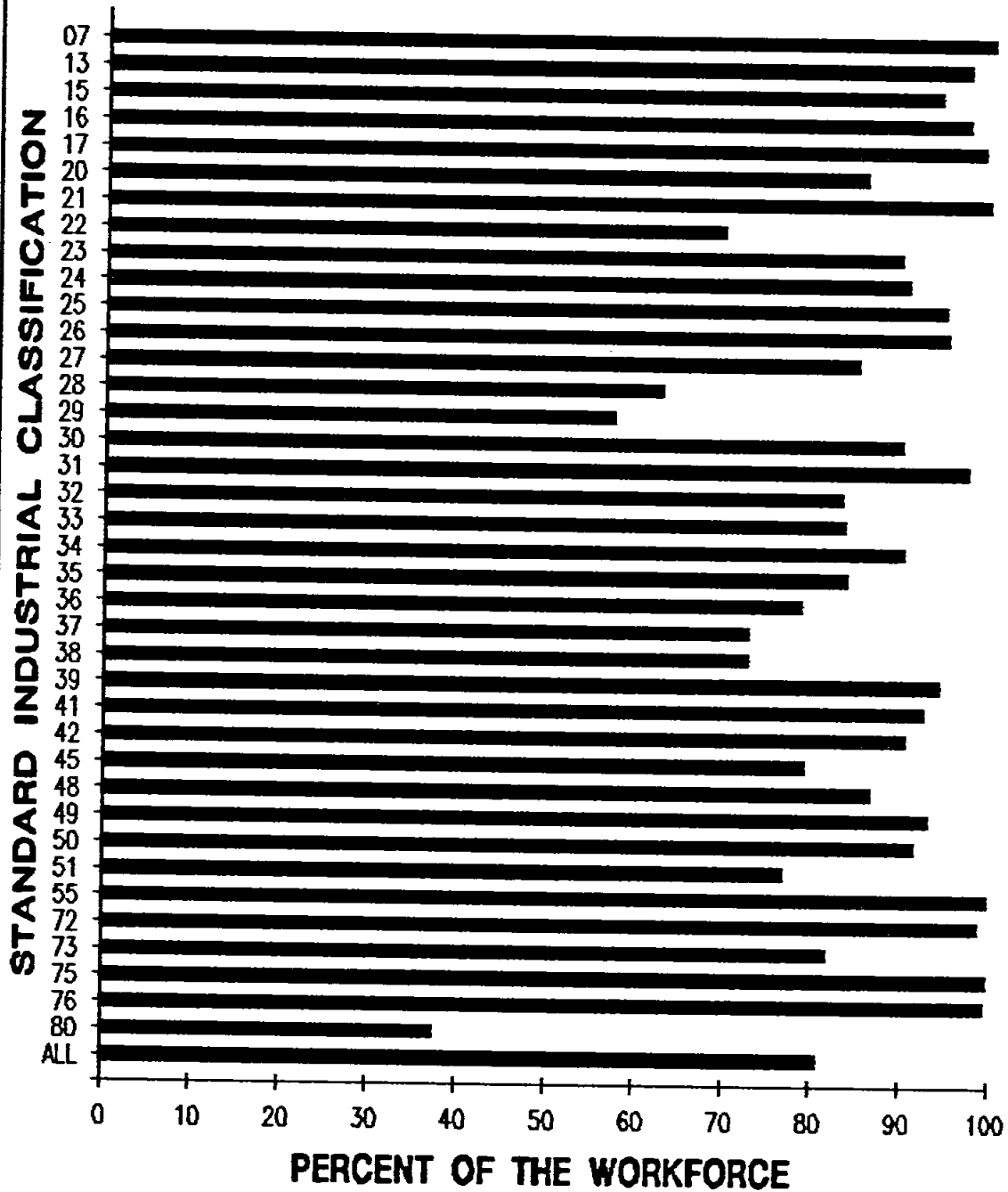
NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. III-75

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH  
PROVIDE NO IMMUNIZATIONS OR IMMUNIZE MANAGEMENT ONLY

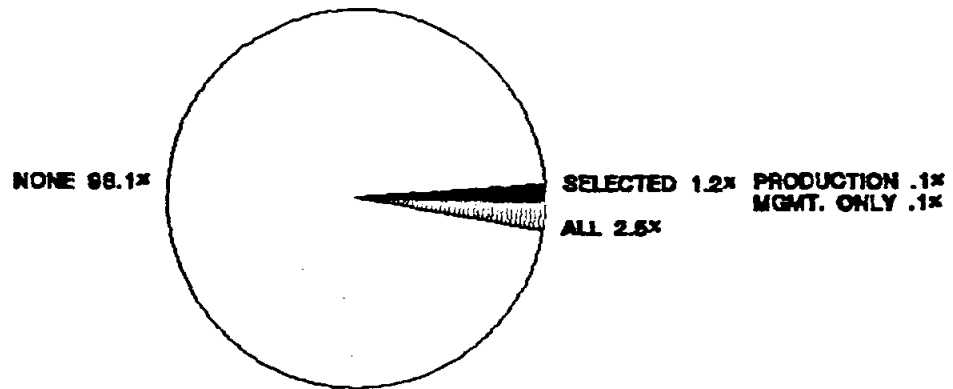
MAJOR GROUP	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL
07	5563* (1575) 100.0%	70* (67) 100.0%	...	5633* (1557) 100.0%	103682* (30828) 100.0%	7009* (6680) 100.0%	...	110692* (29333) 100.0%
13	8537 (1953) 99.3%	987* (345) 96.8%	46* (52) 100.0%	9570 (2168) 99.0%	205215 (39579) 98.2%	166872* (61940) 95.9%	31383* (35291) 100.0%	403469* (106586) 97.4%
15-17	94188 (2401) 99.8%	3927 (539) 94.7%	234* (133) 96.7%	98349 (2471) 99.6%	2093836 (19785) 99.8%	692460 (108960) 93.9%	207068* (98298) 87.7%	2993364 (138817) 97.4%
20-39	150242 (2371) 98.0%	29172 (1846) 91.9%	4672 (212) 74.5%	184085 (3495) 96.2%	4496300 (39254) 97.4%	5752357 (345022) 90.2%	5709061 (299086) 69.1%	15957718 (584497) 82.8%
40-49	47977 (2872) 90.3%	5509 (995) 94.3%	374 (90) 79.9%	53860 (3443) 90.6%	1305969 (101460) 91.1%	1075392 (218239) 93.2%	433511 (88995) 75.6%	2814872 (290096) 89.1%
50-59	56979 (3689) 97.6%	2255* (598) 84.8%	...	59234 (3827) 97.0%	1076887 (82608) 95.8%	331659* (91146) 81.1%	...	1408547 (124512) 91.9%
70-79	72404 (3555) 99.0%	2090 (333) 89.1%	248* (89) 70.0%	74741 (3552) 98.6%	1365171 (71031) 98.0%	405167 (63008) 87.2%	224035* (72700) 66.0%	1994373 (101292) 90.8%
80	2133* (699) 75.1%	1117 (192) 51.6%	708 (147) 34.3%	3958 (650) 56.0%	72801* (19465) 71.6%	282509 (52292) 52.9%	1024070 (252237) 33.9%	1379380 (258944) 37.7%
ALL	438022 (7257) 97.5%	45127 (2306) 90.2%	6281 (321) 66.5%	489430 (8061) 96.2%	10719862 (164291) 96.7%	8713426 (444336) 88.4%	7629127 (420938) 61.2%	27062414 (741687) 81.0%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.

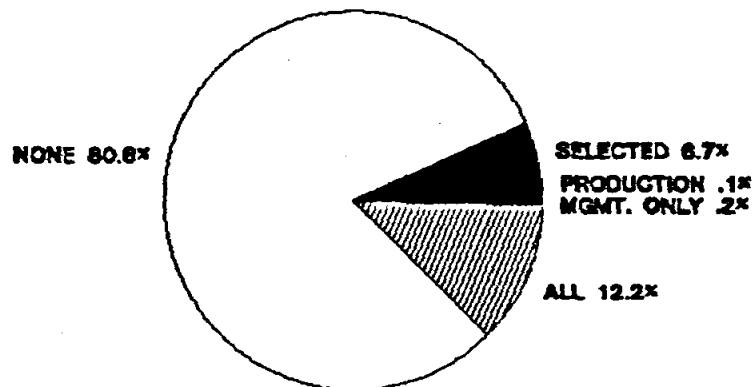
**FIGURE III - 89**  
**IMMUNIZATIONS NOT PROVIDED OR FOR MANAGEMENT ONLY**  
 (NOES 1981-1983)



**FIGURE III - 90**  
**PROVISION OF IMMUNIZATIONS**  
**(NOES 1981-1983)**



**PLANTS**



**WORKERS**

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PROVIDE NO IMMUNIZATIONS OR IMMUNIZE MANAGEMENT ONLY

SIC CODE	PLANTS			TOTAL	EMPLOYEES			TOTAL
	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)		SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	
07	5563* (1575) 100.0%	70* (67) 100.0%	...	5633* (1557) 100.0%	103682* (30828) 100.0%	7009* (6680) 100.0%	...	110692* (29333) 100.0%
13	8537 (1953) 99.3%	987* (345) 96.8%	46* (52) 100.0%	9570 (2168) 99.0%	205215 (39579) 98.2%	166872* (61940) 95.9%	31383* (35291) 100.0%	403469* (106586) 97.4%
15	24916 (1781) 100.0%	1052 (197) 95.0%	127* (98) 93.9%	26094 (1839) 99.8%	562888 (44936) 100.0%	176449 (32852) 89.0%	105810* (68073) 78.5%	845147 (85845) 94.3%
16	11284 (1432) 100.0%	1016 (189) 90.8%	107* (67) 100.0%	12408 (1420) 99.2%	284089 (46249) 100.0%	192784 (41809) 92.8%	101258* (53561) 100.0%	578131 (85163) 97.5%
17	57988 (1718) 99.8%	1859 (423) 96.9%	...	59847 (1787) 99.7%	1246859 (32529) 99.6%	323227* (82340) 97.6%	...	1570086 (85492) 99.2%
20	11039 (619) 96.7%	2872 (450) 89.3%	415* (107) 74.2%	14326 (786) 94.3%	369946 (10920) 95.2%	579141 (94031) 86.0%	385567* (97550) 78.4%	1334654 (113745) 85.9%
21	26* (42) 86.5%	...	79* (56) 99.6%	105* (65) 96.0%	1608* (2605) 86.2%	...	112133* (67572) 100.0%	113741* (66982) 99.8%
22	2904 (401) 99.1%	1347 (149) 84.8%	146* (61) 48.8%	4397 (375) 91.2%	104088 (6726) 98.2%	284123 (30147) 81.9%	111173* (62416) 42.6%	499384 (69735) 69.9%
23	12195 (734) 97.5%	2965 (195) 95.6%	184* (75) 76.0%	15344 (1041) 96.8%	406261 (8936) 95.8%	579215 (34719) 95.0%	131810* (60544) 63.2%	1117286 (58967) 89.9%
24	10711 (682) 100.0%	1000 (155) 87.1%	92* (75) 88.7%	11804 (689) 98.7%	303646 (24224) 100.0%	157131 (23974) 85.6%	64733* (51314) 70.1%	525511 (62069) 90.7%
25	4164 (491) 100.0%	989 (151) 93.1%	119* (75) 99.6%	5272 (475) 98.6%	139109 (19535) 100.0%	230703 (43143) 90.0%	122998* (62394) 100.0%	492810 (78378) 95.0%
26	4021 (768) 97.8%	1525 (248) 97.2%	207* (71) 96.9%	5754 (760) 97.6%	129810 (16977) 94.3%	268019 (49190) 95.2%	198919* (61725) 96.2%	596749 (87371) 95.3%
27	17581 (1055) 97.0%	1591 (163) 84.9%	234* (109) 73.9%	19405 (1041) 95.6%	464962 (14211) 97.2%	306208 (43050) 84.8%	238298* (84881) 68.9%	1009468 (105871) 85.2%
28	5813 (448) 94.2%	950 (148) 81.9%	177* (72) 46.7%	6940 (505) 90.0%	164196 (8355) 90.8%	192497 (41082) 73.8%	222549* (102113) 46.7%	579242 (111045) 63.1%
29	1011* (404) 100.0%	213* (125) 72.7%	38* (33) 37.6%	1262* (446) 89.8%	40980* (17325) 100.0%	41598* (19518) 65.8%	45244* (56440) 38.5%	127822* (63857) 57.6%
30	6711 (1152) 100.0%	1537 (382) 100.0%	169* (74) 75.4%	8417 (1304) 99.3%	225004 (27639) 100.0%	294530* (81731) 100.0%	159106* (69997) 68.1%	678640 (118797) 90.1%
31	931* (343) 100.0%	530 (116) 93.1%	25* (24) 100.0%	1486 (364) 97.4%	24888* (7207) 100.0%	131256 (32554) 96.9%	15664* (16901) 100.0%	171808 (36830) 97.6%
32	8504 (1115) 96.7%	924 (166) 91.3%	88* (54) 47.7%	9516 (1176) 95.2%	228474 (16498) 96.3%	189704 (27503) 90.8%	62238* (42004) 48.2%	480416 (46012) 83.5%
33	4060 (481) 98.2%	1323 (143) 90.1%	254* (66) 75.3%	5637 (500) 94.9%	132526 (10045) 95.7%	281744 (34987) 90.6%	482079 (99487) 77.6%	896349 (101913) 83.7%

SIC CODE	PLANTS				EMPLOYEES			
	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	18052 (1015) 97.5%	2903 (164) 93.0%	305* (80) 88.1%	21259 (1013) 96.7%	542483 (9583) 97.8%	533560 (38176) 89.4%	284234* (84723) 81.0%	1360277 (98677) 90.5%
35	22286 (1070) 98.4%	3306 (141) 97.1%	553 (80) 70.6%	26145 (1118) 97.4%	596810 (8889) 98.4%	639435 (11578) 96.7%	763976 (136784) 68.6%	2000221 (140229) 84.0%
36	7104 (611) 100.0%	2536 (195) 94.4%	610 (147) 77.6%	10250 (594) 96.9%	230488 (11906) 100.0%	516266 (33481) 93.4%	805302 (135184) 68.1%	1552057 (122277) 79.0%
37	3940 (847) 99.2%	1152 (109) 96.8%	338* (87) 81.4%	5430 (823) 97.3%	125068 (16629) 98.5%	234634 (29304) 98.1%	1011675 (165922) 66.8%	1371377 (158587) 72.9%
38	2634 (517) 98.0%	821 (104) 85.8%	301* (140) 72.3%	3755 (602) 92.5%	100075 (13962) 95.7%	171665 (21670) 88.3%	281993* (126100) 61.2%	553732 (130222) 72.9%
39	6553 (659) 100.0%	689* (1354) 86.3%	338* (216) 100.0%	7580 (1459) 98.6%	165877 (13792) 100.0%	120928* (250221) 80.9%	209369* (120490) 100.0%	496175* (241987) 94.6%
41	3749* (959) 84.8%	510* (178) 100.0%	...	4259 (1015) 86.4%	103287 (24337) 87.8%	81542* (35755) 100.0%	...	184829* (46898) 92.8%
42	17994 (2100) 89.8%	1394 (301) 94.0%	82* (54) 99.5%	19469 (2169) 90.2%	435396 (48181) 89.3%	235444 (50704) 91.0%	74830* (49333) 100.0%	745669 (74115) 90.8%
45	3013* (963) 93.0%	590* (397) 99.9%	103* (50) 70.0%	3705* (1108) 93.1%	69103* (21987) 89.2%	109332* (75829) 100.0%	179477* (60146) 67.9%	357912* (95639) 79.3%
48	13951 (2124) 94.9%	787 (187) 87.2%	14* (12) 42.3%	14752 (2192) 94.3%	409615 (82753) 96.2%	140517* (35318) 79.7%	33054* (28615) 47.2%	583186 (98619) 86.8%
49	7323 (1509) 89.1%	1758* (529) 94.4%	142* (69) 82.2%	9223 (1655) 90.0%	242337 (49356) 90.0%	414362* (149426) 97.4%	128141* (55917) 87.4%	784839 (180194) 93.3%
50	29771 (2409) 98.1%	1636* (434) 90.8%	...	31407 (2453) 97.7%	604543 (71227) 95.9%	233084* (62255) 82.3%	...	837628 (103427) 91.7%
51	8279 (1184) 90.8%	...	...	8279 (1184) 88.5%	163299 (39390) 88.3%	...	...	163299 (39390) 77.0%
55	18928 (3032) 100.0%	620* (491) 99.9%	...	19548 (3239) 100.0%	309045 (54796) 100.0%	98575* (80174) 100.0%	...	407620* (110347) 100.0%
72	20144 (2537) 97.6%	675* (190) 100.0%	13* (19) 100.0%	20833 (2589) 97.7%	375166 (50209) 98.7%	82220* (24190) 100.0%	10670* (15114) 100.0%	468057 (62761) 99.0%
73	16338 (1795) 98.6%	1232 (232) 82.7%	235* (78) 68.8%	17805 (1761) 96.7%	398781 (52912) 94.6%	290368 (50796) 83.0%	213364* (65121) 64.9%	902513 (86202) 82.0%
75	26180 (3850) 100.0%	59* (60) 99.7%	...	26239 (385) 100.0%	413275 (61726) 100.0%	8238* (8380) 100.0%	...	421513 (62099) 100.0%
76	9742 (2197) 99.9%	123* (94) 100.0%	...	9865 (2218) 99.9%	177949 (29886) 99.7%	24341* (19716) 100.0%	...	202290 (40598) 99.8%
80	2133* (699) 75.1%	1117 (192) 51.6%	708 (147) 34.3%	3958 (650) 56.0%	72801* (19465) 71.6%	282509 (52292) 52.9%	1024070 (252237) 33.9%	1379380 (258944) 37.7%
A11	436074 (6665) 97.6%	44703 (741) 90.2%	6265 (312) 66.5%	487042 (6884) 96.3%	10673631 (82126) 96.8%	8634836 (128406) 88.3%	7620121 (403193) 61.2%	26928588 (443246) 81.0%

\*Standard error >25% of the estimate. The estimate may be unreliable.  
...No facilities observed.