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APPENDIX B
Product Record for 111
Large Enterprises



PRODUCT RECORD

TABLE B-1
1954 PRODUCT STRUCTURES OF 111 LARGE COMPANIES

	Total Number of Products in 1954	Number of Products in Manufacturing Industries	Number of Products in Primary 2-digit Industry
<i>Food products</i>	203	156	85
Swift & Co.	30	26	12
National Distillers Products Corp.	13	9	3
Armour & Co.	36	27	8
General Foods Corp.	30	24	15
Campbell Soup Co.	6	4	3
Coca-Cola Co.	2	2	1
National Dairy Products Corp.	22	20	16
National Biscuit Co.	17	12	8
Distillers Corp.-Seagrams	3	1	1
Borden Co.	21	18	11
Hiram Walker-Gooderham & Worts, Ltd.	7	4	3
Corn Products Refining Co.	16	9	4
<i>Tobacco manufactures</i>	35	26	18
American Tobacco Co.	12	9	4
R. J. Reynolds Tobacco Co.	8	5	3
Liggett and Myers Tobacco Co.	5	4	4
Philip Morris & Co., Ltd., Inc.	4	3	3
P. Lorillard Co.	6	5	4
<i>Textile mill products</i>	54	39	16
United Merchants & Manufacturers, Inc.	18	12	6
Cannon Mills Co.	5	4	3
Armstrong Cork Co.	24	17	3
Pacific Mills	7	6	4
<i>Paper products</i>	153	117	39
International Paper Co.	20	14	8
Crown Zellerbach Corp.	17	10	5
St. Regis Paper Co.	19	12	6
Kimberly-Clark Corp.	15	13	6
West Virginia Pulp & Paper Co.	8	6	3
Container Corp. of America	13	10	4
Marathon Corp.	24	19	5
Minnesota Mining & Manufacturing Co.	37	33	2
<i>Chemicals</i>	371	280	161
Celanese Corp. of America	12	10	5
E. I. du Pont de Nemours & Co.	29	26	12
Allied Chemical & Dye Corp.	26	19	14
Union Carbide & Carbon Corp.	37	25	8
Dow Chemical Co.	31	18	13

(continued)

APPENDIX B

TABLE B-1 (continued)

	Total Number of Products in 1954	Number of Products in Manufacturing Industries	Number of Products in Primary 2-digit Industry
<i>Chemicals (cont.)</i>			
Procter & Gamble Co.	16	10	7
American Cyanamid Co.	24	20	15
Olin Mathieson Chemical Corp.	56	40	16
Monsanto Chemical Co.	24	21	19
Colgate-Palmolive Co.	5	4	4
Koppers Co.	40	28	9
Merck & Co., Inc.	28	28	27
Sherwin-Williams Co.	14	11	6
Food Machinery & Chemical Corp.	29	20	6
<i>Petroleum</i>	211	84	17
Standard Oil Co. (New Jersey)	19	9	1
Standard Oil Co. of Indiana	25	12	1
Socony-Vacuum Oil Co.	19	6	1
Texas Co.	23	11	3
Gulf Oil Corp.	24	6	1
Standard Oil Co. of California	21	9	2
Cities Service Co.	18	7	3
Sinclair Oil Corp.	20	7	1
Phillips Petroleum Co.	23	9	1
Atlantic Refining Co.	19	8	3
<i>Rubber products</i>	173	153	17
Goodyear Tire & Rubber Co.	25	22	3
United States Rubber Co.	57	56	4
Firestone Tire & Rubber Co.	32	22	3
B. F. Goodrich Co.	22	20	4
General Tire & Rubber Co.	37	33	3
<i>Stone, clay, and glass products</i>	135	92	35
Pittsburgh Plate Glass Co.	34	24	6
Owens-Illinois Glass Co.	20	15	5
United States Gypsum Co.	21	13	5
Johns-Manville Corp.	21	15	9
Libbey-Owens-Ford Glass Co.	16	10	4
National Gypsum Co.	15	9	5
Corning Glass Works	8	6	1
<i>Primary metals</i>	288	153	49
United States Steel Corp.	56	32	7
Bethlehem Steel Corp.	37	26	7
Anaconda Copper Mining Co.	45	26	9
Kennecott Copper Corp.	24	13	4
Aluminum Co. of America	39	16	4
Republic Steel Corp.	21	12	4
Jones & Laughlin Steel Corp.	18	8	3

(continued)

PRODUCT RECORD

TABLE B-1 (concluded)

	Total Number of Products in 1954	Number of Products in Manufacturing Industries	Number of Products in Primary 2-digit Industry
<i>Primary metals (cont.)</i>			
National Steel Corp.	16	8	6
Armco Steel Corp.	15	7	3
Youngstown Sheet & Tube Co.	17	5	2
<i>Fabricated metal products</i>			
American Can Co.	11	10	5
Continental Can Co., Inc.	22	18	3
American Radiator & Standard Sanitary Corp.	24	22	6
Babcock & Wilcox Co.	20	17	2
A. O. Smith Corp.	21	20	4
<i>Machinery</i>			
Fairbanks, Morse & Co.	19	16	7
International Harvester Co.	26	15	6
International Business Machines Corp.	12	9	3
Allis-Chalmers Manufacturing Co.	32	27	18
Deere & Co.	13	10	5
Singer Manufacturing Co.	12	8	2
Caterpillar Tractor Co.	7	5	4
Remington Rand, Inc.	15	11	3
National Cash Register Co.	6	4	2
Ingersoll-Rand Co.	12	8	6
Burroughs Corp.	13	12	3
Baldwin-Lima-Hamilton Corp.	23	20	13
Crane Co.	19	14	2
<i>Electrical machinery</i>			
General Electric Co.	79	74	17
Westinghouse Electric Corp.	61	54	14
Radio Corp. of America	23	10	6
Electric Auto-Lite Co.	16	15	6
Sylvania Electric Products, Inc.	26	26	10
<i>Transportation equipment</i>			
Ford Motor Co.	21	15	3
General Motors Corp.	52	41	9
Chrysler Corp.	22	17	2
Bendix Aviation Corp.	25	25	5
Boeing Airplane Co.	4	4	2
Lockheed Aircraft Corp.	5	2	2
Borg-Warner Corp.	31	28	4
American Motors Corp.	15	11	3
United Aircraft Corp.	9	5	4
Douglas Aircraft Co., Inc.	3	1	1
American Locomotive Co.	17	16	3
Pullman, Inc.	19	16	3
A.C.F. Industries, Inc.	27	23	3

SOURCE: The sources of information are described in Chapter 2.

APPENDIX B

TAB
NUMBER OF COMPANIES ENGAGED IN SPECIFIED M
GROUPED BY

<i>Industry Group of Company</i>	No. of Co's in Group	<i>Industry Group</i>								
		Ordnance & Access.	Food Prod.	Tobacco Mfs.	Textile Mill Prod.	Apparel	Lumber & Wood Prod.	Furniture & Fixtures	Paper Prod.	Print. & Publ.
Food products	12		12		1		2		3	2
Tobacco manufactures	5			5	1	1	1		1	1
Textile mill products	4				4	3			1	
Paper products	8				1		7	1	8	2
Chemicals	14	5	3		3		3	1	2	2
Petroleum	10									
Rubber products	5	3			5	2	1	3	1	
Stone, clay, and glass products	7	1			2		2	2	5	
Primary metals	10	1					1	1		1
Fabricated metal products	5	1					1		2	2
Machinery	13	3	1		1		2	4	2	4
Electrical machinery	5	1			2		1	2	2	2
Transportation equipment	13	5					1	1	1	1
Total no. of companies		20	16	5	20	6	22	15	28	17
Total less primary group companies		20	4	0	16	6	22	15	20	17

PRODUCT RECORD

E B-2

MANUFACTURING ACTIVITIES, 111 LARGE ENTERPRISES
INDUSTRY, 1954

of Products

	Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instru-ment	Misc. Mfg.
7				2	1		3	4		1		1
1							2					
2			1		1		1	1				1
6	1	1			2		1	6	1		1	3
14	3	1			4	6	3	7	2	1	2	3
10	10					1	3	1		1	1	3
4	1	5	2	4	4	1	4	5	3	5	3	5
4	2	1			7	1	4		1		2	4
5	7				3	10	10	37	5	2		3
		1			2	3	5	5	3	3	3	2
	1				1	8	4	13	7	5	7	3
3					3	4	5	4	5	3	4	4
5	1	2			5	8	8	10	7	13	4	1
61	26	12	4		33	42	53	66	34	34	27	33
47	16	7	4		26	32	48	53	29	21	27	33

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TABLE
NUMBER OF 4-DIGIT PRODUCTS AND SERVICES IN
LARGE ENTERPRISES GROUPS

<i>Industry Group of Product Additions</i>	<i>Industries of</i>				
	Food Products (12)	Tobacco (5)	Textile Mill Products (4)	Paper Products (8)	Chemicals (14)
Farms	2	1	1		
Forestry	1			9	2
Fisheries	1				
Metal mining	1				7
Coal mining					
Crude petroleum and natural gas extraction	1				6
Mining and quarrying of nonmetallic minerals	3		1	3	15
Building construction	1				
Construction other than building			1		5
Railroads	4			2	5
Water transportation	2			1	5
Transportation by air					
Pipeline transportation					3
Services incidental to transportation				1	1
Telecommunications					
Utilities and sanitary services	2	1		7	4
Merchant wholesalers	6	1	3	3	1
Retail trade	3		2		2
Banking	1				1
Credit agencies other than banks			1		1
Insurance	2				1
Real estate	1	1		2	9
Holding and other investment companies			1		1
Misc. business services	2	1	2	2	5
Automobile repair services and garages					
Misc. repair services	1				
Radio and television broadcasting					1
Motion pictures					1
Amusement and recreation services	1				
Medical and other health services					
Educational services				2	
Automotive dealers and gasoline service stations					
Average per company	2.92	1.0	3.0	4.0	5.42

PRODUCT RECORD

E B-3

SPECIFIED NONMANUFACTURING INDUSTRIES FOR 111
 ENTERPRISES DESCRIBED BY INDUSTRY, 1954

<i>Companies*</i>								
Petroleum (10)	Rubber Products (5)	Stone, Clay, and glass Products (7)	Primary Metals (10)	Fabricated Metal Products (5)	Machinery (13)	Electrical Machinery (5)	Trans. Equip. (13)	Total (111)
	1							5
		2	2		1			17
		1	21		2			32
		1	7		1			9
24		4	1					36
3		11	17	1	2			56
			5					6
		1	4		2		1	14
7		1	15		2	2	1	39
15		2	8		1		2	36
1								1
15		2	1					21
1			2				3	8
3						3	1	7
4	1	1	16		2	1	2	41
								14
	4	2	6		2			21
					1			3
	1		1	1	3	2	5	15
4	1		2				2	12
12	2	3	7	1	7	2	4	51
2		1	3		1	1	2	12
		1			6		6	25
	1						1	2
				2	1	1	4	9
	2					4		7
								1
						1	1	3
						1		1
						1	2	5
16	6							22
10.70	3.80	4.71	11.80	1.0	2.62	3.80	2.85	4.79

SOURCE: Product record for 111 large enterprises described in Chapter 2.
 * Numbers in parentheses refer to number of companies in the specified industry.

APPENDIX B

TABLE B-4
ADDITIONS AND ABANDONMENTS OF PRODUCTS BY 111 LARGE COMPANIES, 1929-1939

	Total Number of Products Added 1929-39	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Food products</i>	73	52	38	5
Swift & Co.	20	14	8	1
National Distillers Products Corp.	3	2	2	0
Armour & Co.	9	5	3	3
General Foods Corp.	12	8	7	0
Campbell Soup Co.	1	1	1	0
Coca-Cola Co.	0	0	0	0
National Dairy Products Corp.	9	9	8	0
National Biscuit Co.	6	5	5	0
Distillers Corp.-Seagrams	2	1	1	0
Borden Co.	4	4	2	1
Hiram Walker-Gooderham & Worts, Ltd.	2	1	1	0
Corn Products Refining Co.	5	2	0	0
<i>Tobacco manufactures</i>	3	2	1	1
American Tobacco Co.	0	0	0	1
R. J. Reynolds Tobacco Co.	2	1	0	0
Liggett and Myers Tobacco Co.	0	0	0	0
Philip Morris and Co., Ltd., Inc.	1	1	1	0
P. Lorillard Co.	0	0	0	0
<i>Textile mill products</i>	21	18	2	1
United Merchants & Manufacturers, Inc.	6	5	1	1
Cannon Mills Co.	0	0	0	0
Armstrong Cork Co.	13	11	0	0
Pacific Mills	2	2	1	0
<i>Paper products</i>	36	31	22	2
International Paper Co.	10	8	7	1
Crown Zellerbach Corp.	3	3	3	0
St. Regis Paper Co.	3	3	3	1
Kimberly-Clark Corp.	1	1	1	0
West Virginia Pulp & Paper Co.	4	3	2	0
Container Corp. of America	6	4	4	0
Marathon Corp.	3	3	2	0
Minnesota Mining & Manufacturing Co.	6	6	0	0
<i>Chemicals</i>	89	71	53	11
Celanese Corp. of America	0	0	0	0
E. I. du Pont de Nemours & Co.	23	21	13	3

(continued)

PRODUCT RECORD

TABLE B-4 (continued)

	Total Number of Products Added 1929-39	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Chemicals (cont.)</i>				
Allied Chemical & Dye Corp.	4	3	3	0
Union Carbide & Carbon Corp.	12	10	7	2
Dow Chemical Co.	13	9	9	1
Procter & Gamble Co.	3	3	3	1
American Cyanamid Co.	8	7	5	0
Olin Mathieson Chemical Corp.	8	4	3	2
Monsanto Chemical Co.	7	6	6	1
Colgate-Palmolive Co.	1	1	1	1
Koppers Co.	3	3	0	0
Merck & Co., Inc.	0	0	0	0
Sherwin-Williams Co.	2	1	1	0
Food Machinery & Chemical Corp.	5	3	2	0
<i>Petroleum</i>	41	24	10	8
Standard Oil Co. (New Jersey)	4	4	1	0
Standard Oil Co. of Indiana	5	2	0	1
Socony-Vacuum Oil Co.	7	5	1	0
Texas Co.	3	2	2	2
Gulf Oil Corp.	7	3	1	2
Standard Oil Co. of California	1	1	1	1
Cities Service Co.	2	2	2	0
Sinclair Oil Corp.	5	3	1	1
Phillips Petroleum Co.	5	2	1	0
Atlantic Refining Co.	2	0	0	1
<i>Rubber products</i>	42	39	5	10
Goodyear Tire & Rubber Co.	12	11	1	2
United States Rubber Co.	11	11	1	4
Firestone Tire & Rubber Co.	8	7	1	4
B. F. Goodrich Co.	6	6	1	0
General Tire & Rubber Co.	5	4	1	0
<i>Stone, clay, and glass products</i>	49	37	13	4
Pittsburgh Plate Glass Co.	13	10	3	0
Owens-Illinois Glass Co.	6	6	2	2
United States Gypsum Co.	10	7	1	0
Johns-Manville Corp.	3	2	1	1
Libbey-Owens-Ford Glass Co.	4	4	2	1
National Gypsum Co.	9	6	3	0
Corning Glass Works	4	2	1	0
<i>Primary metals</i>	59	41	12	14
United States Steel Corp.	8	7	0	2
Bethlehem Steel Corp.	1	0	0	1

(continued)

APPENDIX B

TABLE B-4 (continued)

	Total Number of Products Added 1929-39	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Primary metals (cont.)</i>				
Anaconda Copper Mining Co.	2	2	1	0
Kennecott Copper Corp.	4	3	1	3
Aluminum Co. of America	3	2	1	0
Republic Steel Corp.	15	11	3	2
Jones & Laughlin Steel Corp.	4	3	1	3
National Steel Corp.	7	4	1	0
Armco Steel Corp.	9	7	3	0
Youngstown Sheet & Tube Co.	6	2	1	3
<i>Fabricated metal products</i>	14	10	1	2
American Can Co.	0	0	0	0
Continental Can Co., Inc.	5	3	1	0
American Radiator & Standard Sanitary Corp.	1	1	0	2
Babcock & Wilcox Co.	4	4	0	0
A. O. Smith Corp.	4	2	0	0
<i>Machinery</i>	43	35	20	5
Fairbanks, Morse & Co.	4	3	3	2
International Harvester Co.	1	1	1	1
International Business Machines Corp.	9	7	2	0
Allis-Chalmers Manufacturing Co.	7	6	5	0
Deere & Co.	1	1	1	0
Singer Manufacturing Co.	3	2	0	0
Caterpillar Tractor Co.	1	1	1	1
Remington Rand, Inc.	4	3	0	0
National Cash Register Co.	0	0	0	0
Ingersoll-Rand Co.	2	0	0	1
Burroughs Corp.	4	4	2	0
Baldwin-Lima-Hamilton Corp.	6	6	5	0
Crane Co.	1	1	0	0
<i>Electrical machinery</i>	76	61	20	4
General Electric Co.	25	23	7	0
Westinghouse Electric Corp.	16	13	3	3
Radio Corp. of America	16	6	5	0
Electric Auto-Lite Co.	16	16	4	1
Sylvania Electric Products, Inc.	3	3	1	0
<i>Transportation equipment</i>	73	63	10	24
Ford Motor Co.	0	0	0	12
General Motors Corp.	12	9	2	5
Chrysler Corp.	7	6	0	2

(continued)

PRODUCT RECORD

TABLE B-4 (concluded)

	Total Number of Products Added 1929-39	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Transportation equipment (cont.)</i>				
Bendix Aviation Corp.	16	15	3	0
Boeing Airplane Co.	0	0	0	0
Lockheed Aircraft Corp.	0	0	0	0
Borg-Warner Corp.	20	19	2	1
American Motors Corp.	5	4	0	2
United Aircraft Corp.	2	1	1	2
Douglas Aircraft Co., Inc.	1	0	0	0
American Locomotive Co.	4	4	1	0
Pullman, Inc.	1	0	0	0
A.C.F. Industries, Inc.	5	5	1	0

SOURCE: The sources are described in Chapter 2.

APPENDIX B

TABLE B-5

ADDITIONS AND ABANDONMENT OF PRODUCTS BY 111 LARGE COMPANIES 1939-50

	Total Number of Products Added 1939-50	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Food products</i>	50	36	21	27
Swift & Co.	2	1	0	12
National Distillers Products Corp.	7	4	1	1
Armour & Co.	3	3	0	3
General Foods Corp.	10	8	7	2
Campbell Soup Co.	2	2	1	0
Coca-Cola Co.	1	1	0	2
National Dairy Products Corp.	2	1	1	3
National Biscuit Co.	1	1	1	1
Distillers Corp.-Seagrams	0	0	0	0
Borden Co.	11	10	7	1
Hiram Walker-Gooderham & Worts, Ltd.	5	3	2	0
Corn Products Refining Co.	6	2	1	2
<i>Tobacco manufactures</i>	2	1	0	3
American Tobacco Co.	0	0	0	3
R. J. Reynolds Tobacco Co.	2	1	0	0
Liggett & Myers Tobacco Co.	0	0	0	0
Philip Morris & Co., Ltd., Inc.	0	0	0	0
P. Lorillard Co.	0	0	0	0
<i>Textile mill products</i>	22	17	7	4
United Merchants & Manufacturers, Inc.	10	6	4	0
Cannon Mills Co.	0	0	0	2
Armstrong Cork Co.	8	7	0	1
Pacific Mills	4	4	3	1
<i>Paper products</i>	50	38	12	15
International Paper Co.	7	5	3	5
Crown Zellerbach Corp.	5	4	2	0
St. Regis Paper Co.	4	1	1	2
Kimberly-Clark Corp.	3	3	2	1
West Virginia Pulp & Paper Co.	2	2	2	4
Container Corp. of America	2	2	1	1
Marathon Corp.	4	1	1	2
Minnesota Mining & Manufacturing Co.	23	20	0	0
<i>Chemicals</i>	98	76	48	30
Celanese Corp. of America	4	4	1	1
E. I. du Pont de Nemours & Co.	8	8	5	6
Allied Chemical & Dye Corp.	3	2	2	0

(continued)

PRODUCT RECORD

TABLE B-5 (continued)

	Total Number of Products Added 1939-50	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Chemicals (cont.)</i>				
Union Carbide & Carbon Corp.	16	11	6	5
Dow Chemical Co.	12	8	6	5
Procter & Gamble Co.	5	4	2	2
American Cyanamid Co.	7	6	6	2
Olin Mathieson Chemical Corp.	7	5	5	3
Monsanto Chemical Co.	3	3	3	1
Colgate-Palmolive Co.	0	0	0	2
Koppers Co.	14	10	5	3
Merck & Co., Inc.	2	2	2	0
Sherwin-Williams Co.	0	0	0	0
Food Machinery & Chemical Corp.	17	13	5	0
<i>Petroleum</i>				
Standard Oil Co. (New Jersey)	3	3	1	3
Standard Oil Co. of Indiana	11	8	1	3
Socony-Vacuum Oil Co.	3	1	0	3
Texas Co.	8	8	0	1
Gulf Oil Corp.	8	2	1	0
Standard Oil Co. of California	4	2	0	2
Cities Service Co.	8	5	1	1
Sinclair Oil Corp.	2	1	0	1
Phillips Petroleum Co.	7	4	0	1
Atlantic Refining Co.	3	3	0	1
<i>Rubber products</i>				
Goodyear Tire & Rubber Co.	8	7	1	3
United States Rubber Co.	10	9	1	0
Firestone Tire & Rubber Co.	14	12	1	5
B. F. Goodrich Co.	11	11	1	1
General Tire & Rubber Co.	17	14	1	0
<i>Stone, clay, and glass products</i>				
Pittsburgh Plate Glass Co.	5	4	1	5
Owens-Illinois Glass Co.	9	6	2	2
United States Gypsum Co.	2	2	1	1
Johns-Manville Corp.	2	2	1	0
Libbey-Owens-Ford Glass Co.	6	6	3	1
National Gypsum Co.	2	2	1	3
Corning Glass Works	3	3	1	0
<i>Primary metals</i>				
United States Steel Corp.	1	0	0	6
Bethlehem Steel Corp.	1	0	0	2
Anaconda Copper Mining Co.	2	2	2	4

(continued)

APPENDIX B

TABLE B-5 (continued)

	Total Number of Products Added 1939-50	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Primary metals (cont.)</i>				
Kennecott Copper Corp.	3	1	1	5
Aluminum Co. of America	12	3	1	1
Republic Steel Corp.	0	0	0	3
Jones & Laughlin Steel Corp.	1	0	0	1
National Steel Corp.	1	1	0	1
Armco Steel Corp.	3	2	1	5
Youngstown Sheet & Tube Co.	0	0	0	6
<i>Fabricated metal products</i>				
American Can Co.	0	0	0	0
Continental Can Co., Inc.	7	7	0	6
American Radiator & Standard Sanitary Corp.	3	3	0	6
Babcock & Wilcox Co.	0	0	0	0
A. O. Smith Corp.	12	11	3	2
<i>Machinery</i>				
Fairbanks, Morse & Co.	6	5	1	0
International Harvester Co.	7	3	0	3
International Business Machines Corp.	2	2	2	0
Allis-Chalmers Manufacturing Co.	2	2	0	4
Deere & Co.	2	2	2	2
Singer Manufacturing Co.	4	4	1	4
Caterpillar Tractor Co.	2	2	2	0
Remington Rand, Inc.	2	2	1	1
National Cash Register Co.	0	0	0	0
Ingersoll-Rand Co.	3	2	0	0
Burroughs Corp.	5	5	1	0
Baldwin-Lima-Hamilton Corp.	7	7	4	1
Crane Co.	0	0	0	0
<i>Electrical machinery</i>				
General Electric Co.	63	62	21	12
Westinghouse Electric Corp.	23	23	4	2
Radio Corp. of America	18	18	6	3
Electric Auto-Lite Co.	4	4	3	2
Sylvania Electric Products, Inc.	2	1	0	5
	16	16	8	0
<i>Transportation equipment</i>				
Ford Motor Co.	73	63	16	29
General Motors Corp.	2	1	0	1
Chrysler Corp.	17	17	5	6
Bendix Aviation Corp.	9	9	1	1
	9	9	3	6

(continued)

PRODUCT RECORD

TABLE B-5 (concluded)

	Total Number of Products Added 1939-50	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Transportation equipment (cont.)</i>				
Boeing Airplane Co.	1	1	1	0
Lockheed Aircraft Corp.	4	1	0	0
Borg-Warner Corp.	7	7	2	5
American Motors Corp.	3	1	0	1
United Aircraft Corp.	2	2	2	0
Douglas Aircraft Co., Inc.	2	1	1	1
American Locomotive Co.	3	3	0	0
Pullman, Inc.	11	9	0	3
A.C.F. Industries, Inc.	3	2	1	5

SOURCE: The sources are described in Chapter 2.

APPENDIX B

TABLE B-6

ADDITIONS AND ABANDONMENTS OF PRODUCTS BY 111 LARGE COMPANIES, 1950-54

	Total Number of Products Added 1950-54	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Food products</i>	34	29	11	22
Swift & Co.	3	3	0	1
National Distillers Products Corp.	8	7	0	6
Armour & Co.	5	3	0	2
General Foods Corp.	4	4	3	7
Campbell Soup Co.	3	2	2	0
Coca-Cola Co.	0	0	0	0
National Dairy Products Corp.	2	2	1	0
National Biscuit Co.	3	3	3	1
Distillers Corp.-Seagrams	1	0	0	0
Borden Co.	3	3	0	2
Hiram Walker-Gooderham & Worts, Ltd.	1	1	1	0
Corn Products Refining Co.	1	1	1	3
<i>Tobacco manufactures</i>	2	0	0	0
American Tobacco Co.	0	0	0	0
R. J. Reynolds Tobacco Co.	0	0	0	0
Liggett & Myers Tobacco Co.	0	0	0	0
Philip Morris & Co., Ltd., Inc.	2	0	0	0
P. Lorillard Co.	0	0	0	0
<i>Textile mill products</i>	6	3	1	4
United Merchants & Manufacturers, Inc.	1	1	0	0
Cannon Mills Co.	0	0	0	0
Armstrong Cork Co.	5	2	1	2
Pacific Mills	0	0	0	2
<i>Paper products</i>	41	38	11	2
International Paper Co.	3	2	2	0
Crown Zellerbach Corp.	5	4	2	0
St. Regis Paper Co.	4	4	3	0
Kimberly-Clark Corp.	2	2	2	0
West Virginia Pulp & Paper Co.	1	1	1	0
Container Corp. of America	5	5	1	0
Marathon Corp.	6	6	0	0
Minnesota Mining & Manufacturing Co.	15	14	0	2
<i>Chemicals</i>	98	83	40	17
Celanese Corp. of America	7	5	4	1
E. I. du Pont de Nemours & Co.	5	5	2	0
Allied Chemical & Dye Corp.	6	6	6	0

(continued)

PRODUCT RECORD

TABLE B-6 (continued)

	Total Number of Products Added 1950-54	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Chemicals (cont.)</i>				
Union Carbide & Carbon Corp.	5	4	2	5
Dow Chemical Co.	3	2	2	2
Procter & Gamble Co.	0	0	0	0
American Cyanamid Co.	2	2	1	0
Olin Mathieson Chemical Corp.	42	34	10	0
Monsanto Chemical Co.	9	8	7	1
Colgate-Palmolive Co.	2	2	2	0
Koppers Co.	4	4	0	5
Merck & Co., Inc.	3	3	2	2
Sherwin-Williams Co.	1	1	0	1
Food Machinery & Chemical Corp.	9	7	2	0
<i>Petroleum</i>	23	21	4	9
Standard Oil Co. (New Jersey)	1	1	0	2
Standard Oil Co. of Indiana	1	1	0	0
Socony-Vacuum Oil Co.	0	0	0	1
Texas Co.	0	0	0	2
Gulf Oil Corp.	3	3	1	0
Standard Oil Co. of California	3	3	0	1
Cities Service Co.	0	0	0	2
Sinclair Oil Corp.	6	5	0	0
Phillips Petroleum Co.	4	4	0	0
Atlantic Refining Co.	5	4	3	1
<i>Rubber products</i>	57	54	6	8
Goodyear Tire & Rubber Co.	8	8	2	3
United States Rubber Co.	18	18	1	1
Firestone Tire & Rubber Co.	9	7	0	2
B. F. Goodrich Co.	7	6	2	2
General Tire & Rubber Co.	15	15	1	0
<i>Stone, clay, and glass products</i>	19	16	5	7
Pittsburgh Plate Glass Co.	5	3	1	0
Owens-Illinois Glass Co.	1	1	1	2
United States Gypsum Co.	1	0	0	0
Johns-Manville Corp.	1	1	0	1
Libbey-Owens-Ford Glass Co.	6	6	1	4
National Gypsum Co.	3	3	1	0
Corning Glass Works	2	2	1	0
<i>Primary metals</i>	32	22	5	11
United States Steel Corp.	11	11	1	0
Bethlehem Steel Corp.	2	2	0	0
Anaconda Copper Mining Co.	4	2	1	0

(continued)

APPENDIX B

TABLE B-6 (continued)

	Total Number of Products Added 1950-54	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Primary metals (cont.)</i>				
Kennecott Copper Corp.	2	2	1	2
Aluminum Co. of America	3	1	0	6
Republic Steel Corp.	5	3	1	1
Jones & Laughlin Steel Corp.	0	0	0	2
National Steel Corp.	1	0	0	0
Armco Steel Corp.	4	1	1	0
Youngstown Sheet & Tube Co.	0	0	0	0
<i>Fabricated metal products</i>				
American Can Co.	16	14	2	5
Continental Can Co., Inc.	0	0	0	0
American Radiator & Standard Sanitary Corp.	7	5	0	2
Babcock & Wilcox Co.	3	3	1	2
A. O. Smith Corp.	2	2	0	0
	4	4	1	1
<i>Machinery</i>				
Fairbanks, Morse & Co.	42	33	18	4
International Harvester Co.	5	5	3	2
International Business Machines Corp.	4	3	3	0
Allis-Chalmers Manufacturing Co.	2	1	1	1
Deere & Co.	4	3	2	0
Singer Manufacturing Co.	2	2	1	0
Caterpillar Tractor Co.	0	0	0	0
Remington Rand, Inc.	2	1	1	0
National Cash Register Co.	1	1	0	1
Ingersoll-Rand Co.	1	1	1	0
Burroughs Corp.	0	0	0	0
Baldwin-Lima-Hamilton Corp.	5	5	2	0
Crane Co.	8	6	4	0
	8	5	0	0
<i>Electrical machinery</i>				
General Electric Co.	42	38	12	1
Westinghouse Electric Corp. Radio Corp. of America	12	10	3	0
Electric Auto-Lite Co.	14	12	3	0
Sylvania Electric Products, Inc.	4	4	2	1
	0	0	0	0
	12	12	4	0
<i>Transportation equipment</i>				
Ford Motor Co.	85	80	22	13
General Motors Corp.	2	2	2	3
Chrysler Corp.	21	20	4	1
Bendix Aviation Corp.	4	3	2	3
	3	3	0	0

(continued)

PRODUCT RECORD

TABLE B-6 (concluded)

	Total Number of Products Added 1950-54	Number of Products Added in Manufacturing Industries	Number of Products Added in Primary 2-digit Industry	Total Number of Products Deleted
<i>Transportation equipment (cont.)</i>				
Boeing Airplane Co.	2	2	0	0
Lockheed Aircraft Corp.	1	1	1	1
Borg-Warner Corp.	17	16	4	1
American Motors Corp.	8	8	2	0
United Aircraft Corp.	3	3	2	0
Douglas Aircraft Co., Inc.	1	0	0	1
American Locomotive Co.	9	9	2	0
Pullman, Inc.	3	3	2	1
A.C.F. Industries, Inc.	11	10	1	2

SOURCE: The sources are described in Chapter 2.

APPENDIX B

TABLE
NUMBER OF COMPANIES THAT ADDED PRODUCTS IN
ENTERPRISE

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord- nance & Access.	Food Prod.	To- bac- co Mfs.	Tex- tile Mill Prod.	Appar- el	Lum- ber & Wood Prod.	Furni- ture & Fix- tures	Pa- per Prod.	Print. & Publ.
Food products	12		10				1		1	
Tobacco manufactures	5			1						
Textile mill products	4				2	2			1	
Paper products	8								8	
Chemicals	14	1			1					
Petroleum	10									
Rubber products	5				4		1	1	1	
Stone, clay, and glass products	7								3	1
Primary metals	10						1	1		
Fabricated metal products	5							1	1	1
Machinery	13							2		
Electrical machinery	5	1			1			2	1	1
Transportation equipment	13	1								
Total no. of co's. adding products		3	10	1	8	2	3	7	16	3
Total less co's. whose primary activities are in the industry		3	0	0	6	2	3	7	8	3

PRODUCT RECORD

E B-7

**SPECIFIED MANUFACTURING INDUSTRIES, 111 LARGE
ES, 1929-39**

Product Additions

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instru-ment	Misc. Mfg.
5						1	1				
2		1		1		1	1				1
3		1		1						1	
10		1		4	2	1	2		1	1	1
4	8					1	2			1	1
4		5		3		1	1	3	3	2	2
3	1			7		4	2				1
				1	8	6	2	1			
				1	1	1	2			1	
			1	1	2	1	8	4		2	2
						4	2	5	1	3	3
2		1		1	3	5	6	4	6	2	
33	9	9	1	20	16	26	29	17	11	13	11
23	1	4	1	13	8	25	21	12	5	13	11

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TAB
NUMBER OF COMPANIES THAT ADDED PRODUCTS
ENTERPR

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord-nance & Access.	Food Prod.	To-bac-co Mfs.	Tex-tile Mill Prod.	Appar-el	Lum-ber & Wood Prod.	Furni-ture & Fix-tures	Pa-per Prod.	Print. & Publ.
Food products	12		8				2		1	
Tobacco manufactures	5									
Textile mill products	4				2	2		1		
Paper products	8							8	1	
Chemicals	14	2	1		2			1		
Petroleum	10									
Rubber products	5	3			3		1			
Stone, clay, and glass products	7						1	2	3	
Primary metals	10									
Fabricated metal products	5	1						1		
Machinery	13	3					1		1	
Electrical machinery	5	2						2	1	
Transportation equipment	13	2								
Total no. of co's. adding products		13	9	0	7	2	4	5	14	4
Total less co's. whose primary activities are in the industry		13	1	0	5	2	4	5	6	4

PRODUCT RECORD

E B-8

SPECIFIED MANUFACTURING INDUSTRIES, 111 LARGE
ES, 1939-50

Product Additions

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instru-ment	Misc. Mfg.
4						1			1		
1											
2				1			1				
1	1	1		2			3	1		1	2
12	1			1	1	1	4	1	1	1	1
10	4				1	1					
5		5	1	2	1	3	1	1	5	1	3
3	1	1		7						1	
1					4	3					
1						1	2	1			2
1					2	2	9	4	1	3	
1				2	2	3	2	4	3	2	2
1	1	1		2	3	5	6	3	8	2	
42	8	8	1	17	14	20	28	15	19	11	10
30	4	3	1	10	10	19	19	11	11	11	10

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TABL
NUMBER OF COMPANIES THAT ADDED PRODUCTS IN
ENTERPRIS

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord- nance & Access.	Food Prod.	To- bac- co Mfs.	Tex- tile Mill Prod.	Appar- el	Lum- ber & Wood Prod.	Furni- ture & Fix- tures	Pa- per Prod.	Print. & Publ.
Food products	12		6						1	
Tobacco manufactures	5									
Textile mill products	4				1					
Paper products	8				1		2	1	7	1
Chemicals	14	2	2		3		1	1	1	1
Petroleum	10									
Rubber products	5	1			4	2	1	1		
Stone, clay, and glass products	7	1			2				1	
Primary metals	10	1								
Fabricated metal products	5								1	1
Machinery	13							1		
Electrical machinery	5						1			
Transportation equipment	13	4						1		
Total no. of co's. adding products		9	8	0	11	2	5	5	11	3
Total less co's. whose primary activities are in the industry		9	2	0	10	2	5	5	4	3

PRODUCT RECORD

E B-9

SPECIFIED MANUFACTURING INDUSTRIES, 111 LARGE
 ES, 1950-54

Product Additions

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instru-ment	Misc. Mfg.
5											
1											1
3		1		1			2				1
10	2			1	1	1	4	1	2	1	2
6	2							1	1	1	
2	1	4	1			1	2	1	5	2	3
2				5				1		1	1
		1		2	5	2	1	2	1		2
		1			1	2	1	1	3		1
1					1		9	2	2	2	2
2				1	2	2	4	4	1	1	1
2					3	3	7	4	10	2	1
34	5	7	1	10	13	11	30	16	25	10	15
24	3	3	1	5	8	9	21	12	15	10	15

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TABLE
NUMBER OF COMPANIES THAT ABANDONED PRODUCTS IN
ENTERPRISE

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord- nance & Access.	Food Prod.	To- bac- co Mfs.	Tex- tile Mill Prod.	Appar- el	Lum- ber & Wood Prod.	Furni- ture & Fix- tures	Pa- per Prod.	Print. & Publ.
Food products	12		2							
Tobacco manufactures	5									
Textile mill products	4				1					
Paper products	8							2		
Chemicals	14							1	1	
Petroleum	10									
Rubber products	5				2					
Stone, clay, and glass products	7									
Primary metals	10									
Fabricated metal products	5									
Machinery	13									
Electrical machinery	5									
Transportation equipment	13						1			
Total no. of co's. deleting products		0	2	0	3	0	1	0	3	1
Total less co's. whose primary activities are in the industry		0	0	0	2	0	1	0	1	1

PRODUCT RECORD

E B-10

SPECIFIED MANUFACTURING INDUSTRIES, 111 LARGE
ES, 1929-39

Product Abandonments

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instru-ment	Misc. Mfg.
						1					
4				1		1					
1	3					4					
1		1	1								1
1				1							
1					2				1		
							1		1		
							2		1		
				1		1	1	1			
1	1			1		1		1	3	1	
9	4	1	1	4	2	8	4	2	6	1	1
5	1	0	1	3	0	8	2	1	3	1	1

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TABLE
NUMBER OF COMPANIES THAT ABANDONED PRODUCTS
ENTERPRISES,

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord- nance & Food Access. Prod.	To- bac- co Mfs.	Tex- tile Mill Prod.	Appar- el	Lum- ber & Wood Prod.	Furni- ture & Fix- tures	Pa- per Prod.	Print. & Publ.	
Food products	12		6				1		1	
Tobacco manufactures	5			1					1	
Textile mill products	4			3						
Paper products	8						1		4	
Chemicals	14									
Petroleum	10						1			
Rubber products	5									
Stone, clay, and glass products	7									
Primary metals	10							1		
Fabricated metal products	5						2		1	
Machinery	13									
Electrical machinery	5									
Transportation equipment	13						1			
Total no. of co's. deleting products		0	6	0	4	0	6	1	7	0
Total less co's. whose primary activities are in the industry		0	0	0	1	0	6	1	3	0

PRODUCT RECORD

E B-11
IN SPECIFIED MANUFACTURING INDUSTRIES, 111 LARGE
1939-50

Product Abandonments

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instrument	Misc. Mfg.
1							1				
2										1	
5				2	3	1			1		
4	1					2	1			1	1
								1	1	2	1
2				1		2	1				
1	1			1	2	2	2		2		
	1				2	1					
			1				6	1	1		
								1	1		1
2					1	1	4	2	1	1	
17	3	0	1	4	8	9	15	5	7	5	3
12	2	0	1	3	6	8	9	4	6	5	3

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

APPENDIX B

TABLE
NUMBER OF COMPANIES THAT ABANDONED PROD
111 LARGE ENTER

Industry Group of Company	No. of Co's in Group	Industries of								
		Ord- nance & Access.	Food Prod.	To- bac- co Mfs.	Tex- tile Mill Prod.	Appar- el	Lum- ber & Wood Prod.	Furni- ture & Fix- tures	Pa- per Prod.	Print. & Publ.
Food products	12		5			1				
Tobacco manufactures	5									
Textile mill products	4				1					
Paper products	8									
Chemicals	14				1				1	
Petroleum	10									
Rubber products	5				1					
Stone, clay, and glass products	7								1	
Primary metals	10									
Fabricated metal products	5									
Machinery	13									
Electrical machinery	5									
Transportation equipment	13						1			
Total no. of co's. deleting products		0	5	0	3	1	1	0	0	2
Total less co's. whose primary activities are in the industry		0	0	0	2	1	1	0	0	2

PRODUCT RECORD

E B-12
 UCTS IN SPECIFIED MANUFACTURING INDUSTRIES,
 PRISES, 1950-54

Product Abandonments

Chemicals ^a	Petr. & Coal Prod.	Rubber Prod.	Leather Prod.	Stone, Clay, & Glass Prod.	Primary Metals	Fabr. Metal Prod.	Mach. ^b	Elec. Mach.	Trans. Equip.	Instrument	Misc. Mfg.
3			1								
1				1							
4	1	1		1	1	1	1				2
1		1				1	1		1		
1				2							1
											1
1					1	1	1	1			1
								1			
		1		1		1	4		2	1	
11	1	3	1	5	2	4	7	2	3	1	5
7	1	2	1	3	2	3	6	1	1	1	5

SOURCE: Product record described in Chapter 2.

^a And allied products.

^b Except electrical machinery.

