

EPA-600/2-77-107h
September 1977

Environmental Protection Technology Series

**SOURCE ASSESSMENT:
OVERVIEW AND PRIORITIZATION OF
EMISSIONS FROM TEXTILE MANUFACTURING**



**Industrial Environmental Research Laboratory
Office of Research and Development
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711**

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SOURCE ASSESSMENT: OVERVIEW AND PRIORITIZATION OF EMISSIONS FROM TEXTILE MANUFACTURING

by

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Contract No. 68-02-1874
ROAP No. 21AXM-071
Program Element No. 1AB015

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Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Research and Development
Washington, DC 20460

PREFACE

The Industrial Environmental Research Laboratory (IERL) of EPA has the responsibility for insuring that pollution control technology is available for stationary sources to meet the requirements of the Clean Air Act, the Federal Water Pollution Control Act and solid waste legislation. If control technology is unavailable, inadequate, uneconomical or socially unacceptable, then financial support is provided for the development of the needed control techniques for industrial and extractive process industries. The Chemical Processes Branch of the Industrial Processes Division of IERL has the responsibility for investing tax dollars in programs to develop control technology for a large number (>500) of operations in the chemical industries.

Monsanto Research Corporation (MRC) has contracted with EPA to investigate the environmental impact of various industries which represent sources of pollution in accordance with EPA's responsibility as outlined above. Dr. Robert C. Binning serves as MRC Program Manager in this overall program entitled "Source Assessment," which includes the investigation of sources in each of four categories: combustion, organic materials, inorganic materials, and open sources. Dr. Dale A. Denny of the Industrial Processes Division at Research Triangle Park serves as EPA Project Officer. Reports prepared in this program are of three types: Source Assessment Documents, State-of-the-Art Reports, and Special Project Reports.

Source Assessment Documents contain data on emissions from specific industries. Such data are gathered from the literature, government agencies and cooperating companies. Sampling and analysis are also performed by the contractor when the available information does not adequately characterize the source emissions. These documents contain all of the information necessary for IERL to decide whether a need exists to develop additional control technology for specific industries.

State-of-the-Art Reports include data on emissions from specific industries which are also gathered from the literature, government agencies and cooperating companies. However, no extensive sampling is conducted by the contractor for such industries. Sources in this category are considered by EPA to be of insufficient priority to warrant complete assessment for control technology decision making. Therefore, results from such studies are published as State-of-the-Art Reports for potential utility by the government, industry, and others having specific needs and interests.

Special projects provide specific information or services which are applicable to a number of source types or have special utility to EPA but are not part of a particular source assessment study. This special project report, "Source Assessment: Overview and Prioritization of Emissions from Textile Manufacturing" was prepared to provide a general summary of textile manufacturing, and to furnish information on individual textile subcategories.

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SECTION I

INTRODUCTION

This report provides an overview and prioritization of mass emissions from textile manufacturing in order to permit selection of specific pollution sources for detailed assessment.

Operations in textile manufacturing are defined as any processes which take a yarn, filament, fiber, or tow and create a final or intermediate product. In this study, such operations are limited to those which occur on the plant site and which emit air pollutants.

With respect to the Source Assessment Program, textile manufacturing was originally included in the two source types "Fabric Scouring" and "Surface Coating - Fabric Treatment." These sources were contained in the organic chemicals category of the Overview Matrix.¹ Subsequently, these two textile source types were replaced by various textile sub-categories and incorporated into a revised Overview Matrix.²

¹Special Project Report, Overview Matrix. Monsanto Research Corporation, Dayton, Ohio, EPA Contract 68-02-1874. 7 July 1976. 52 p.

²Quill, R. P., and E. C. Eimutis. Source Assessment: Overview Matrix for National Criteria Pollutant Emissions. EPA-600/2-77-107c, U.S. Environmental Protection Agency, Research Triangle Park, July 1977. 63 p.

In order to begin detailed assessments of air pollution from textile manufacturing sources, each subcategory requires an overview of mass emissions and a prioritization of hazard potentials. The size and complexity of the textile industry necessitates the creation of special source listings to provide the in-depth review of emissions. At present, data were compiled only for those sources for which emissions information was readily available. Hence, this report presents a preliminary source listing and prioritization of textile sources. A more comprehensive and organized listing would require a more intensive research effort.

SECTION II

SOURCE LISTINGS AND PRIORITIZATION

A. SOURCE LISTING

In the Source Assessment Program, emissions data for criteria pollutants from various source types are listed in special formats. In addition, a relative ranking (prioritizing) of source types based on their potential environmental impact is developed. In this project, special source and prioritization listings were produced specifically for use in evaluating textile manufacturing sources. The listings used in the Source Assessment Program and the special listings produced for the textile industry are briefly compared below.

1. Overview Matrix

In the Source Assessment Program, the Overview Matrix^{1,2} is an alphabetized listing of all sources in MRC's data base and their mass of criteria emissions (particulates, sulfur dioxide, nitrogen oxides, hydrocarbons, and carbon monoxide). For each source type, the following information is provided: (1) annual mass of criteria emissions, (2) percent contribution of a particular criteria pollutant based on the total amount of that pollutant emitted from all stationary source types in our data base, and (3) percent contribution of a particular criteria pollutant based on the amount of that pollutant emitted from stationary and mobile sources. The

Overview Matrix is revised periodically as additional or improved data become available.

2. Special Textile Source Listings

For the purpose of this report, special listings of textile source types were prepared in order to provide a general summary of textile manufacturing and to provide information on individual textile subcategories. As shown later in Section III.C, operations were tabulated by Standard Industrial Classification (SIC)³ for potential sources of air pollution in textile manufacturing. Two special listings, different from the Overview Matrix, were compiled: (1) A state-by-state listing of criteria emissions from textile manufacturing was developed, which shows the percent contribution of a particular criteria pollutant based on the total amount of that pollutant emitted from all textile sources in the state; and (2) a national listing of criteria emissions from textile manufacturing was developed, which shows the percent contribution of a particular criteria pollutant based on the total amount of that pollutant emitted from all textile sources in the nation and, similarly, from all stationary sources in our data base. The method used for preparing these special textile source listings and the listings themselves are provided in Section III.C.

B. PRIORITIZATION

1. Source Assessment Program

In the Source Assessment Program, prioritization listings were developed to aid in the selection of specific sources

³Standard Industrial Classification Manual 1972. U.S. Government Printing Office, Washington, D.C., 1972. 649 p.

of emissions for detailed assessment.⁴ Air pollution sources were rank ordered or prioritized by computing a relative environmental impact factor for each source type. A priority listing was thus developed for each of the four categories: combustion, organic materials, inorganic materials, and open sources.

2. Textile manufacturing Prioritization

For the purpose of this report, special prioritization listings of textile source types by SIC Code and by specific source type were developed to further aid in selecting specific sources for detailed study. The procedure used for these special prioritizations and the resultant listings are provided in Section III.D.

⁴Eimutis, E. C. Source Assessment: Prioritization of Stationary Air Pollution Sources - Model Description. U.S. Environmental Protection Agency, Research Triangle Park, EPA-600/2-76-032a. February 1976. 77 p.

SECTION III

TEXTILE MANUFACTURING

A. CLASSIFICATION OF SOURCE TYPES

The SIC Manual³ defines industries in accordance with the composition and structure of the economy and covers the entire field of economic activities. The Census of Manufactures, published individually by the U.S. Department of Commerce, provides statistics for groups of related industries. In the SIC system, industries and the operations within industries are coded. Statistics on production, consumption, and other parameters are compiled for each of the codes.

The coding system begins with a 2-digit Major Group code, and groupings become more specific up to a 7-digit code. Major Group 22, "Textile Mill Products," approximately covers the textile manufacturing industry, with the exception of asbestos textiles. Within Major Group 22, there are nine 3-digit codes. These 3-digit codes are usually further subdivided with the addition of digits. Major Group 22 is thus further classified and ultimately results in 7-digit codes.

In order to determine the degree of subdivision that most appropriately fits the pattern of the Source Assessment Program, it was necessary to examine the codes with respect to their coverage of the individual operations as well as the industry. The nine 3-digit codes within the Major

Group 22 are listed in Table 1. Total mass production rates and percentage by weight of the textile manufacturing industry are provided for each 3-digit code. Production rates were obtained by applying conversion factors to the linear yardage statistics reported by the U.S. Department of Commerce's Census of Manufactures.⁵⁻¹⁰ The conversion factors in Table 2 were used.¹¹

Table 1 indicates that SIC Code 223 contains less than 1% of the total production. Therefore, a further breakdown of this source group will not be necessary. SIC Codes 221, 222, and 224 cannot be broken down further since only one 4-digit code is listed for each group. (SIC Codes 2211, 2221, and 2241). SIC Code 225 contains seven 4-digit codes which are listed

⁵1972 Census of Manufactures, Industry Series (SIC Industry Groups 221, 222, 223, and 224), Weaving Mills. MC72(2)-22A, U.S. Department of Commerce, Washington, D.C., January 1975. 35 p.

⁶1972 Census of Manufactures, Industry Series (SIC Industry Group 225), Knitting Mills. MC72(2)-22B, U.S. Department of Commerce, Washington, D.C., April 1975. 42 p.

⁷1972 Census of Manufactures, Industry Series (SIC Industry Group 226), Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods. MC72(2)-22C, U.S. Department of Commerce, Washington, D.C., January 1975, 25 p.

⁸1972 Census of Manufactures, Industry Series (SIC Industry Group 227), Floor Covering Mills. MC72(2)-22D, U.S. Department of Commerce, Washington, D.C., October 1974. 17 p.

⁹1972 Census of Manufactures, Industry Series (SIC Industry Group 228), Yarn and Thread Mills. MC72(2)-22E, U.S. Department of Commerce, Washington, D.C., January 1975, 27 p.

¹⁰1972 Census of Manufactures, Industry Series (SIC Industry Group 229), Miscellaneous textile Goods. MC72(2)-22F, U.S. Department of Commerce, Washington, D.C., December 1974. 34 p.

¹¹Personal communication. Dr. John J. Porter, Clemson University, College of Industrial Management and Textile Science, Department of Textiles, March 21, 1976.

Table 1. BREAKDOWN OF MAJOR GROUP 22, TEXTILE MILL PRODUCTS

SIC Code	Title	Annual production rate, ^{a,b}		Percentage of total
		10 ⁹ kg/yr	(10 ⁶ tons/yr)	
221	Cotton Weaving Mills	2.2	(2.4)	7
222	Man-made Fiber and Silk Weaving Mills	3.9	(4.3)	12
223	Wool Weaving and Finishing Mills	0.09	(0.1)	<1
224	Narrow Fabric Mills	1.6	(1.75)	5
225	Knitting Mills	2.3	(2.55)	7
226	Dyeing And Finishing Textiles, Except Wool Fabrics and Knit Goods	4.5	(4.95)	14
227	Floor Covering Mills	1.8	(2)	5
228	Yarn and Thread Mills	3.5	(3.85)	11
229	Miscellaneous Textile Goods	<u>12.7</u>	<u>(14)</u>	<u>39</u>
TOTAL		32.6	(35.9)	100

^a Fiber, yarn and fabrics.

^b 1 kg = 10³ grams = 2.205 pounds = 0.0011 short tons (short tons are designated "tons" in this document); other conversion factors are presented in Section V.

Table 2. TEXTILE WEIGHTS PER LINEAR UNIT¹¹

Cotton	0.35 kg/m (0.702 lb/yd)
Man-made fiber	0.66 kg/m (1.34 lb/yd)
Wool	0.58 kg/m (1.16 lb/yd)

in Table 3. The operations within each of these 4-digit codes are basically identical, and the 3-digit code 225 will be retained in categorizing the industry.

Table 3. FOUR-DIGIT CODES WITHIN SIC CODE 225, KNITTING MILLS

SIC Code	Title
2251	Women's Hosiery, Except Socks
2252	Hosiery, N.E.C. ^a
2253	Knit Outerwear Mills
2254	Knit Underwear Mills
2257	Circular Knit Fabric Mills
2258	Warp Knit Fabric Mills
2259	Knitting Mills, N.E.C. ^a

^aNot elsewhere classified.

SIC Code 226 (Table 1) can be further divided into SIC Codes 2261, Cotton Finishing Plants; 2262, Man-Made Fiber and Silk Finishing Plants; and 2269, Finishing Plants, N.E.C. (not elsewhere classified). These groupings contain different operations and as such will be categorized separately within the textile industry. SIC Code 227, Floor Covering Mills, contains three 4-digit codes: SIC Codes 2271, Woven Carpets and Rugs; 2272, Tufted Carpets and Rugs; and 2279, Carpets and Rugs, N.E.C. SIC Code 2272, Tufted Carpets and Rugs, accounts for 97% of the yarns and fibers consumed in SIC Code 227. However, the SIC Code 227 classification will be retained due to the similarities of operations within the 4-digit codes. If a detailed assessment of this source is undertaken, SIC Code 2272 could represent all of SIC Code 227. In SIC Code 228, Yarn and Thread Mills, there are four 4-digit codes: SIC Codes 2281, Yarn Mills Except Wool; 2282, Throwing and Winding Mills; 2283, Wool Yarn Mills; and 2284, Thread Mills. Within SIC Code 229, Miscellaneous Textile Goods, there are nine 4-digit

codes. Due to the lack of similarities in operations, all nine codes must be used in the categorization. The 4-digit codes within SIC Code 229 are listed in Table 4.

Table 4. FOUR-DIGIT CODES WITHIN SIC CODE 229, MISCELLANEOUS TEXTILE GOODS

SIC Code	Title
2291	Felt Goods Except Woven Felts and Hats
2292	Lace Goods
2293	Paddings and Upholstery Filling
2294	Processed Textile Waste
2295	Coated Fabrics Not Rubberized
2296	Tire Cord and Fabric
2297	Nonwoven Fabrics
2298	Cordage and Twine
2299	Textile Goods, N.E.C.

The final degree of subdivision of the textile industry that most appropriately fits the Source Assessment Program is shown in Table 5. Five-digit codes will not be used to subdivide the industry since these codes generally specify products and not operations. Definitions of these source groups (Table 5) comprising the textile industry are presented in Table 6.

B. AIR POLLUTION SOURCE TYPES

1. Textile Industry Operations

The various types of fibers used in the textile industry are categorized in Figure 1.¹² These fibers, with the exception

¹²Cook, J. Gordon. Handbook of Textile Fibers - 1. Natural Fibers, fourth edition. W. S. Cowell, Ltd., Great Britain, 1968. p. xxvii.

Table 5. CATEGORIZATION AND PRODUCTION RATES OF
SOURCES WITHIN THE TEXTILE INDUSTRY

SIC Code	Title	Production rate,		Percentage of industry ^a
		10 ⁶ kg/yr	(10 ³ tons/yr)	
2211	Cotton Weaving Mills	2,200	(2,400)	6.7
2221	Man-Made Fiber and Silk Weaving Mills	3,900	(4,300)	12.0
2231	Wool Weaving and Finishing Mills	95	(105)	0.3
2241	Narrow Fabric Mills	1,600	(1,800)	4.9
225	Knitting Mills	2,324	(2,556)	7.1
2261	Cotton Finishing Mills	1,400	(1,540)	4.3
2262	Man-Made Fiber and Silk Finishing Mills	2,900	(3,200)	9.0
2269	Finishing Mills, N.E.C.	150	(170)	0.4
227	Floor Covering Mills	1,800	(2,000)	5.6
2281	Yarn Mills Except Wool	2,740	(3,000)	8.4
2282	Throwing and Winding Mills	640	(700)	1.9
2283	Wool Yarn Mills	110	(120)	0.3
2284	Thread Mills	50	(55)	0.2
2291	Felt Goods Except Woven Felts and Hats	170	(190)	0.5
2292	Face Goods	14	(15)	<0.1
2293	Paddings and Upholstery Filling	200	(220)	0.6
2294	Processed Textile Waste	170	(190)	0.5
2295	Coated Fabrics Not Rubberized	800	(880)	2.5
2296	Tire Cord and Fabric	310	(340)	0.9
2297	Nonwoven Fabrics	11,000	(12,100)	33.4
2298	Cordage and Twine	100	(110)	0.3
2299	Textile Goods, N.E.C.	5	(6)	<0.1
TOTAL		32,678	(35,997)	

^a Percentages rounded off.

Table 6. DEFINITIONS OF SOURCE GROUP
CATEGORIES IN THE TEXTILE INDUSTRY

SIC code	Source	Definition
2211	Cotton Weaving Mills	Mills weaving fabrics over 12 in. in width, wholly or chiefly cotton
2221	Man-Made Fiber and Silk Weaving Mills	Mills weaving fabrics over 12 in. in width, wholly or chiefly of silk and man-made fibers, including glass
2231	Wool Weaving and Finishing Mills	Mills weaving fabrics over 12 in. in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; in dyeing and finishing woven wool fabrics or in dyeing wool, tops, or yarn; and in shrinking and sponging wool goods for the trade
2241	Narrow Fabric Mills	Mills weaving or braiding fabrics 12 in. in width or narrower of cotton, wool, silk, and man-made fibers, including glass fibers. Mills also weaving or braiding fabrics 12 in. in width or narrower of fabric covered elastic yarn are also included in this industry.
225	Knitting Mills	Mills knitting, dyeing, or finishing hosiery, outerwear, underwear, circular knit fabric, warp knit fabric, and other knitted articles
2261	Cotton Finishing Plants	Mills finishing purchased cotton broadwoven fabrics or finishing such fabrics on a commission basis. This includes bleaching, dyeing, printing, mechanical and chemical finishing, and sponging and shrinking cotton for the trade.
2262	Man-Made Fiber and Silk Finishing Plants	Mills finishing purchased man-made fiber and silk broadwoven fabrics or finishing such fabrics on a commission basis. This includes bleaching, dyeing, printing, and mechanical finishing.

(continued)

Table 6 (continued).

SIC code	Source	Definition
2269	Finishing Plants, N.E.C.	Mills dyeing and finishing textiles not elsewhere classified, such as bleaching, printing, and finishing raw stock, yarn, braided goods, and narrow fabrics except wool and knit fabrics
227	Floor Covering Mills	Mills weaving carpets and rugs from yarn, tufting carpets and rugs from fiber, and manufacturing rugs, carpets, art squares, floor mattings, doormats and mattings from twisted paper, grasses, reed, coir, sisal, jute, or rags
2281	Yarn Mills Except Wool	Mills spinning yarn wholly or chiefly by weight of cotton, man-made fibers, or silk staple
2282	Throwing and Winding Mills	Mills texturizing, throwing, twisting, winding, or spooling yarn chiefly (by wt) cotton, man-made fibers, or silk
2283	Wool Yarn Mills	Mills spinning, twisting, winding, or spooling yarn (including carpet and rug yarn) wholly or chiefly (by wt) wool, mohair, or similar animal fibers
2284	Thread Mills	Mills manufacturing thread from natural or man-made fiber except flax and wool
2291	Felt Goods Except Woven Felts and Hats	Mills manufacturing pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process
2292	Lace Goods	Mills manufacturing lace machine products and those primarily engaged in dyeing and finishing lace goods

(continued)

Table 6 (continued).

SIC code	Source	Definition
2293	Paddings and Upholstery Filling	Mills manufacturing batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel from curled hair, cotton mill waste, moss, hemp tow, flax tow, kapok, and related materials
2294	Processed Textile Waste	Mills processing textile waste for spinning, padding, batting, or other uses; and in recovering textile fibers from dippings and rags; in cutting flock from waste, recovered fibers, or raw fiber stock; and in manufacturing oakum and twisted jute packing
2295	Coated Fabrics Not Rubberized	Mills manufacturing coated and impregnated textiles and in the special finishing of textiles such as varnishing and waxing
2296	Tire Cord and Fabrics	Mills manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses
2297	Nonwoven Fabrics	Mills manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means or combinations thereof
2298	Cordage and Twine	Mills manufacturing rope, cable, cordage, twine, and related products from abaca, sisal, henequin, hemp, cotton, paper, jute, flax, man-made fibers including glass and other fibers
2299	Textile Goods, N.E.C.	Mills manufacturing linen goods, jute goods except felt, and other textile goods not elsewhere classified

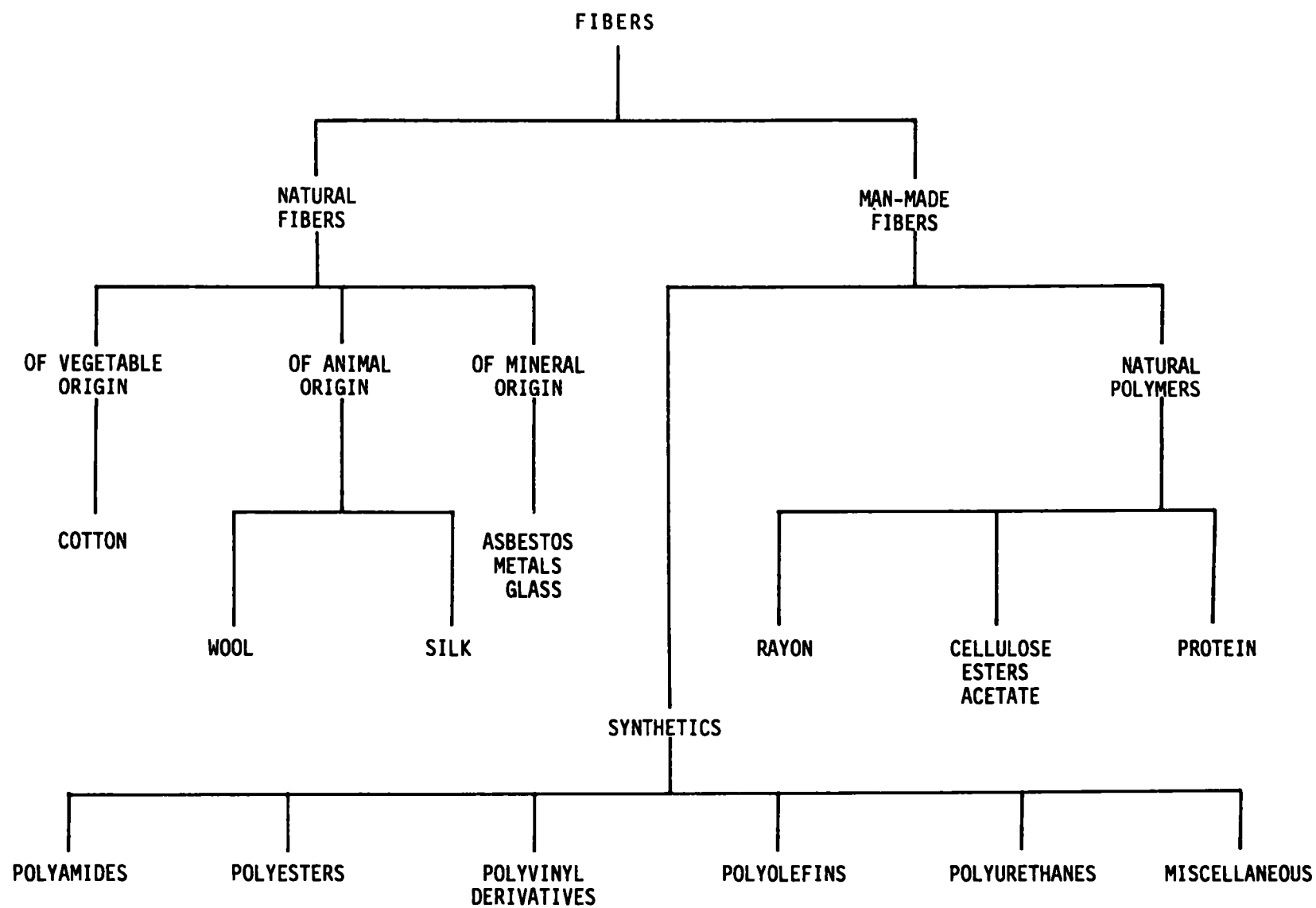


Figure 1. Fibers used in the textile industry.¹²

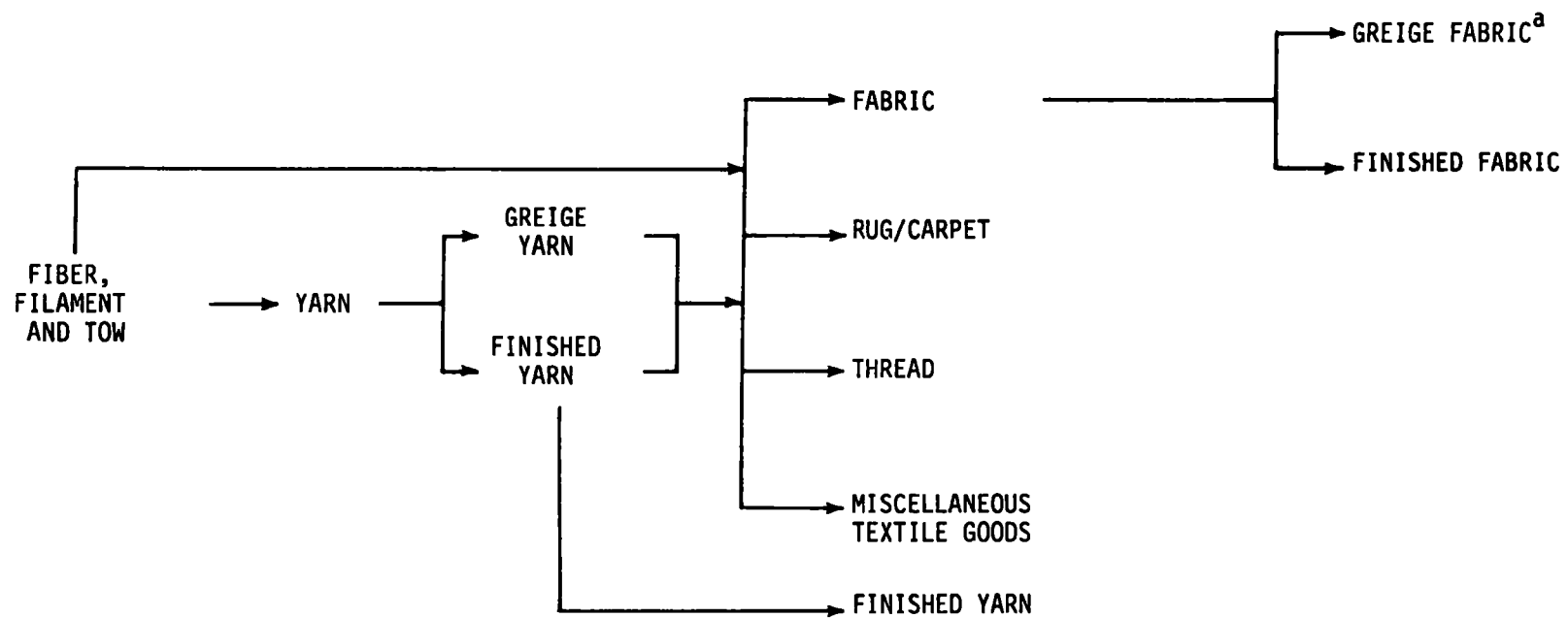
of the mineral fibers, generally follow three basic manufacturing procedures. These basic procedures are illustrated in Figure 2, which represents the general flow of materials through the textile industry, and includes: (a) converting fiber, filament, and tow into yarn; (b) converting yarn into fabric; and (c) converting fabric into finished fabric. The operations for each of these procedures were flow charted in Figures 3, 4, and 5 (A, B, and C) for man-made, vegetable, and animal fibers, respectively. For each fiber, individual flows of: (A) filament, fibers and tow to yarn; (b) yarn to fabric; and (C) fabric to finished fabric, are provided.

2. SIC Classifications of Operations

The flows of man-made, vegetable, and animal fibers in the textile industry (primary production routes) are represented in Figures 6, 7, and 8, respectively, for each of the SIC Codes listed in Table 5. Therefore, each SIC Code listed in Table 5 represents a group of operations in Figures 3, 4, and 5. For this reason, the textile industry was divided into air pollution source types by combining the SIC Codes (Table 5) with the operations given in Figures 3, 4, and 5. The resulting air pollution source types for these SIC Codes are listed in Tables 7 through 28.

C. STATE-BY-STATE AND NATIONAL LISTINGS

State-by-state and national listings refer to compilations of mass emissions of criteria pollutants by textile source type for specific states and for the nation. These data are computed through use of the prioritization forms shown in Figures 9 and 10. These forms were completed after an extensive study of the literature. Only literature data of "C" confidence level or higher (as defined in Reference 4) were used.



^aGREIGE REFERS TO YARN/FABRICS NOT PROCESSED THROUGH FINISHING OPERATIONS.

Figure 2. General flow diagram of materials in the textile industry.

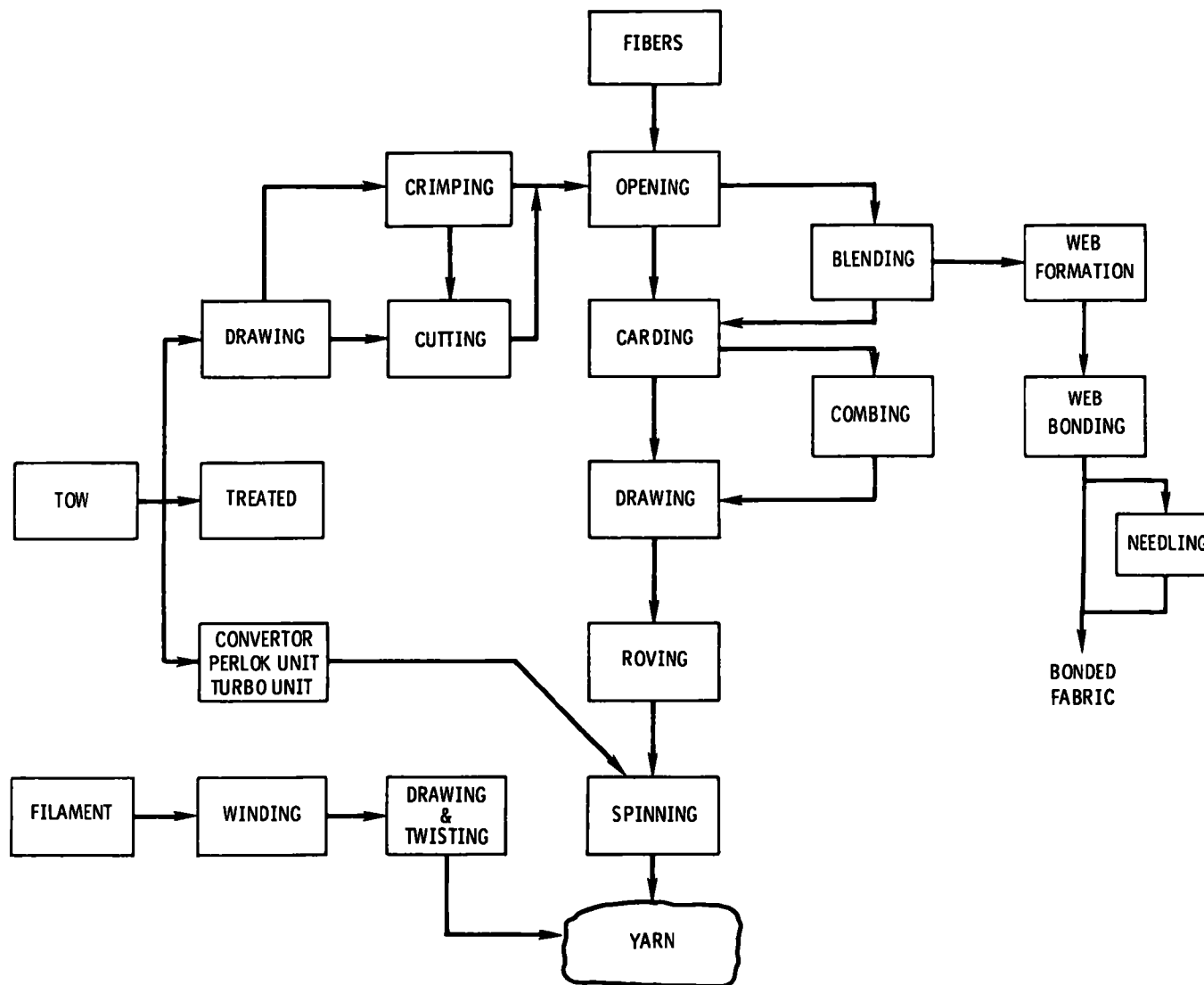


Figure 3A. Flowchart for man-made fiber--filament, fibers, and tow to yarn (including bonded fabrics).

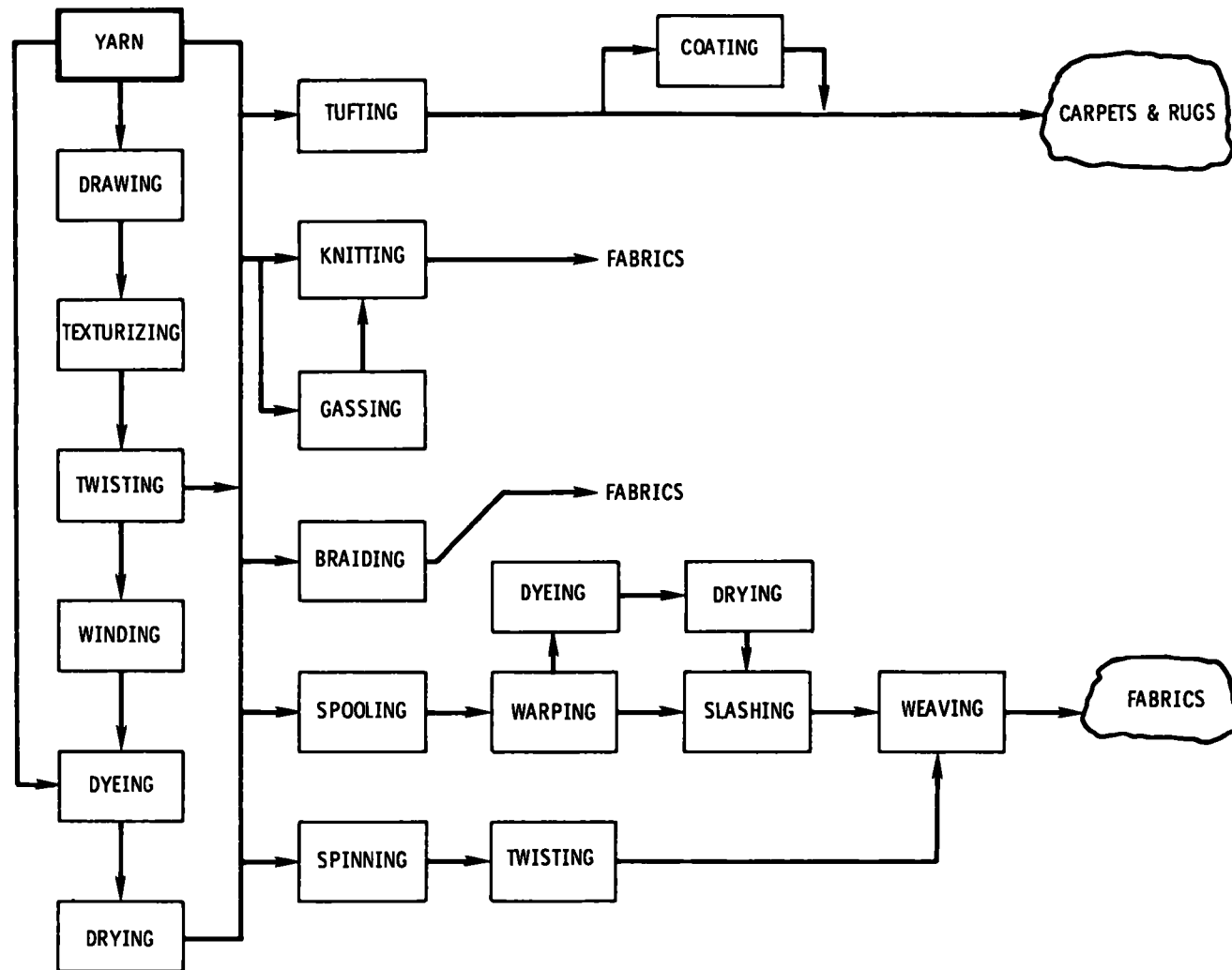


Figure 3B. Flowchart for man-made fiber--yarn to fabric.

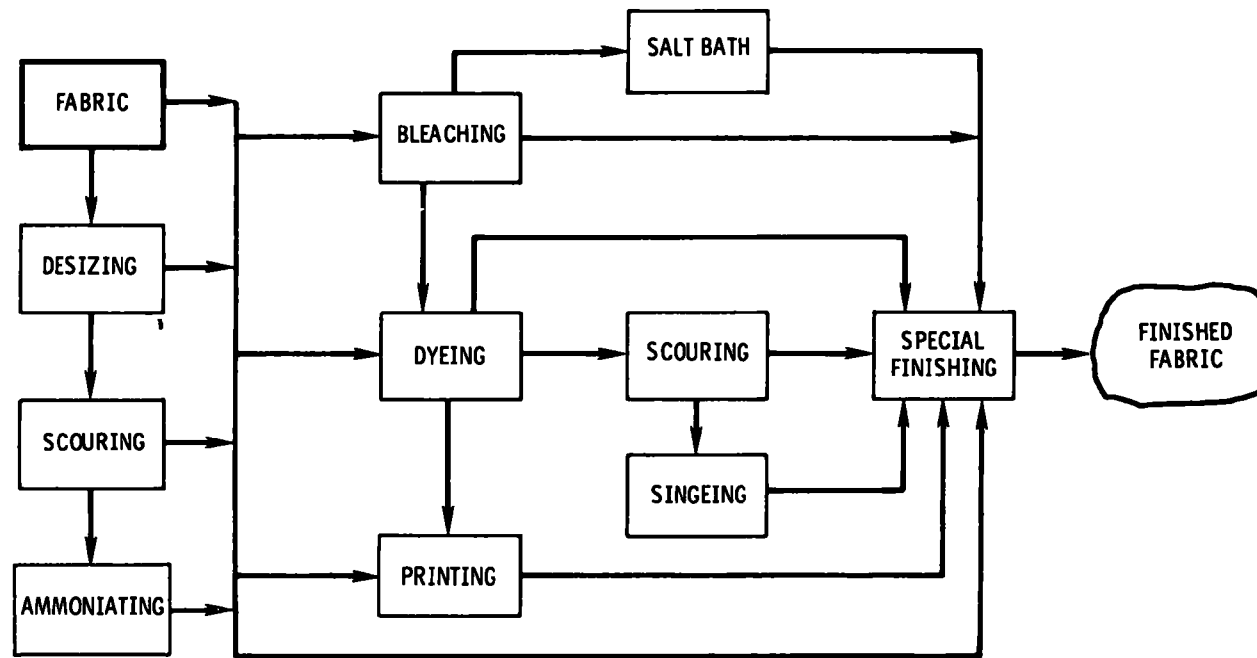


Figure 3C. Flowchart for man-made fiber--fabric to finished fabric.

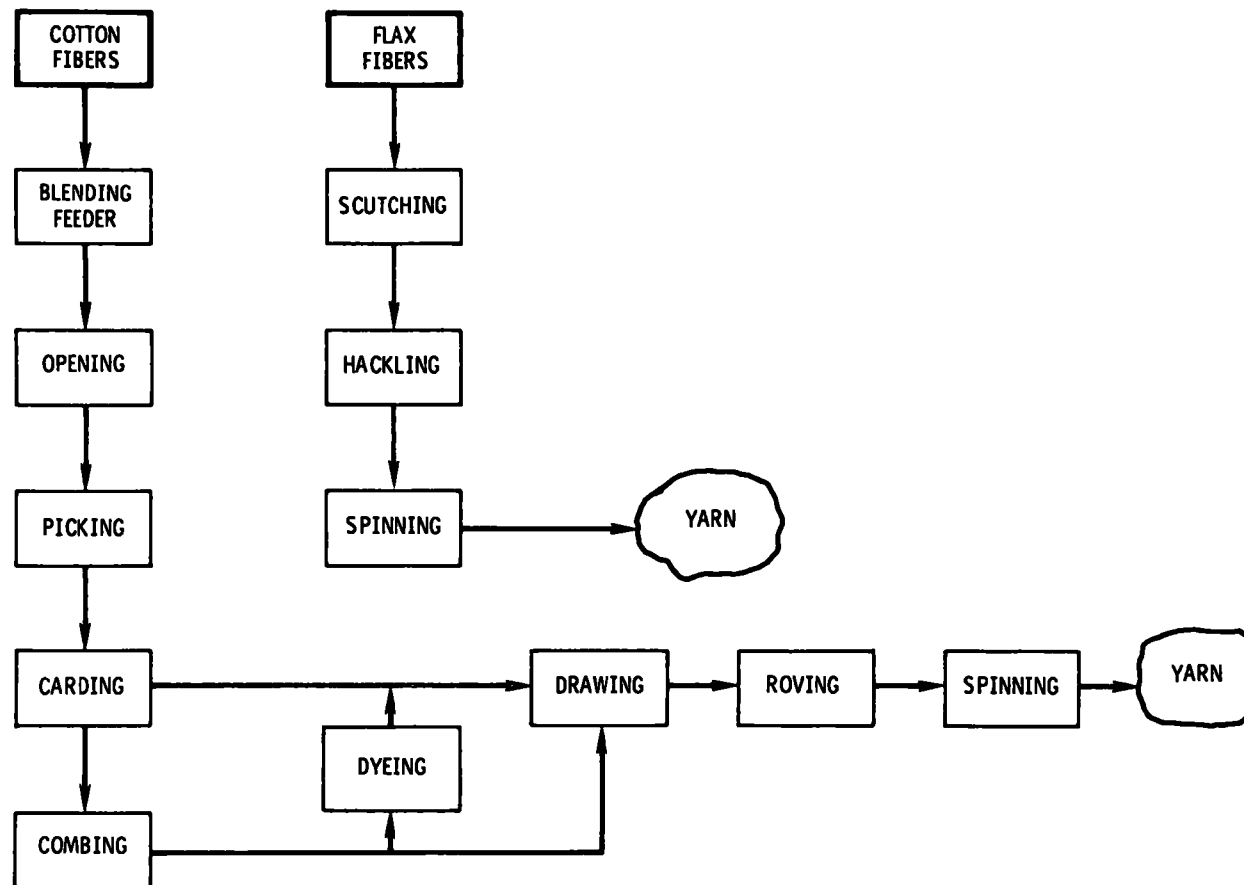


Figure 4A. Flowchart for vegetable fibers (cotton)--fiber to yarn.

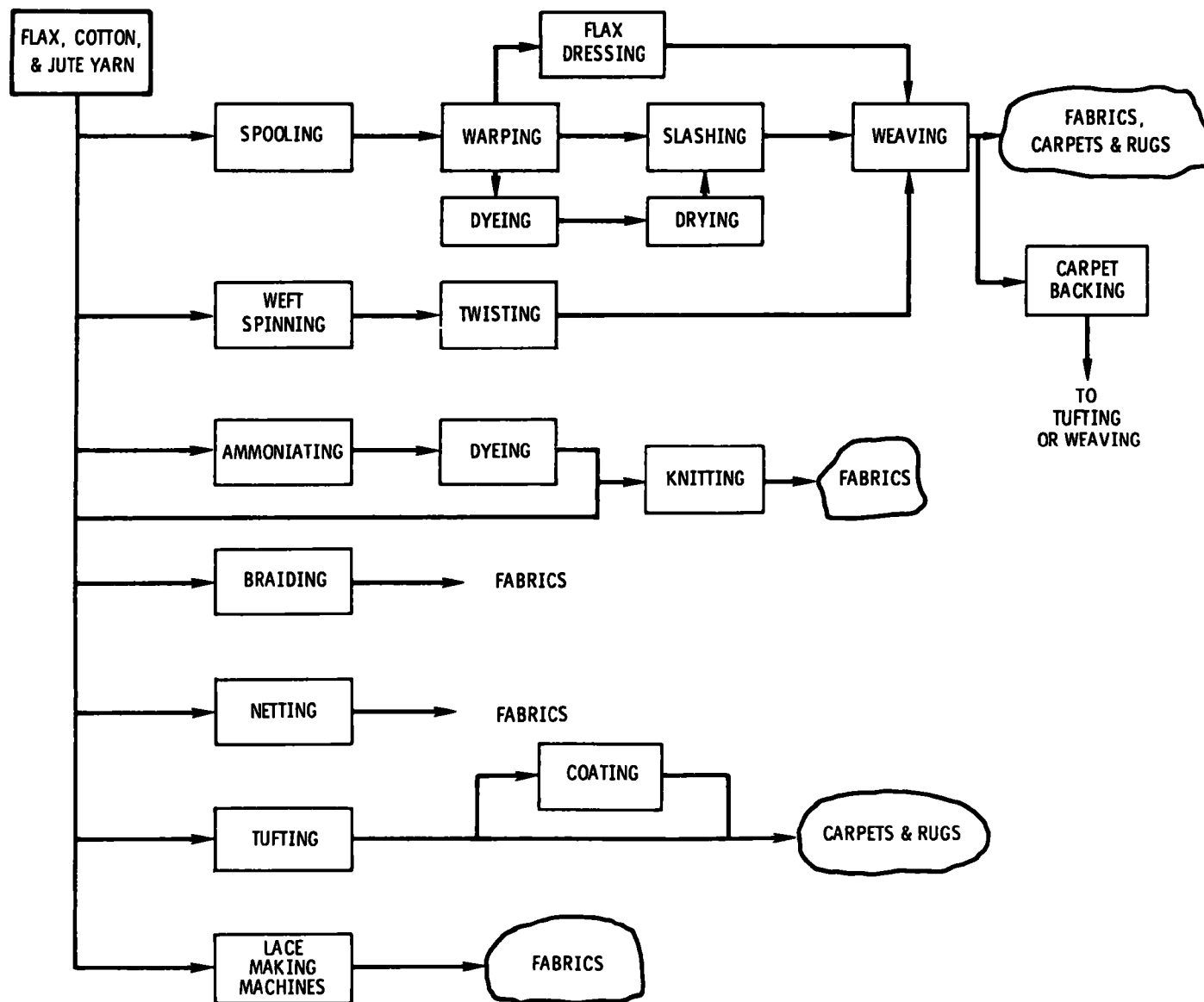


Figure 4B. Flowchart for vegetable fibers (cotton)--yarn to fabric.

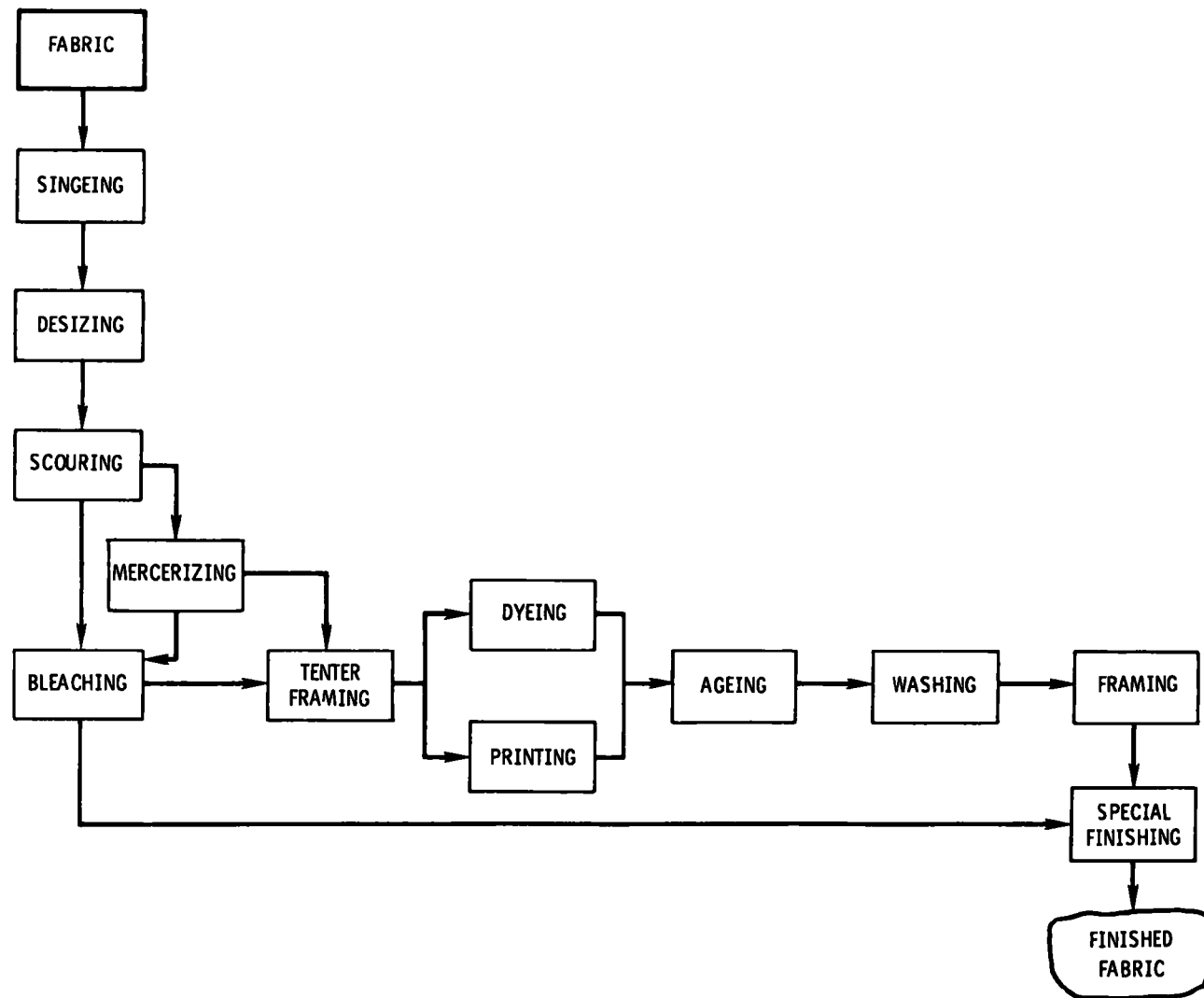


Figure 4C. Flowchart for vegetable fibers--fabric to finished fabric.

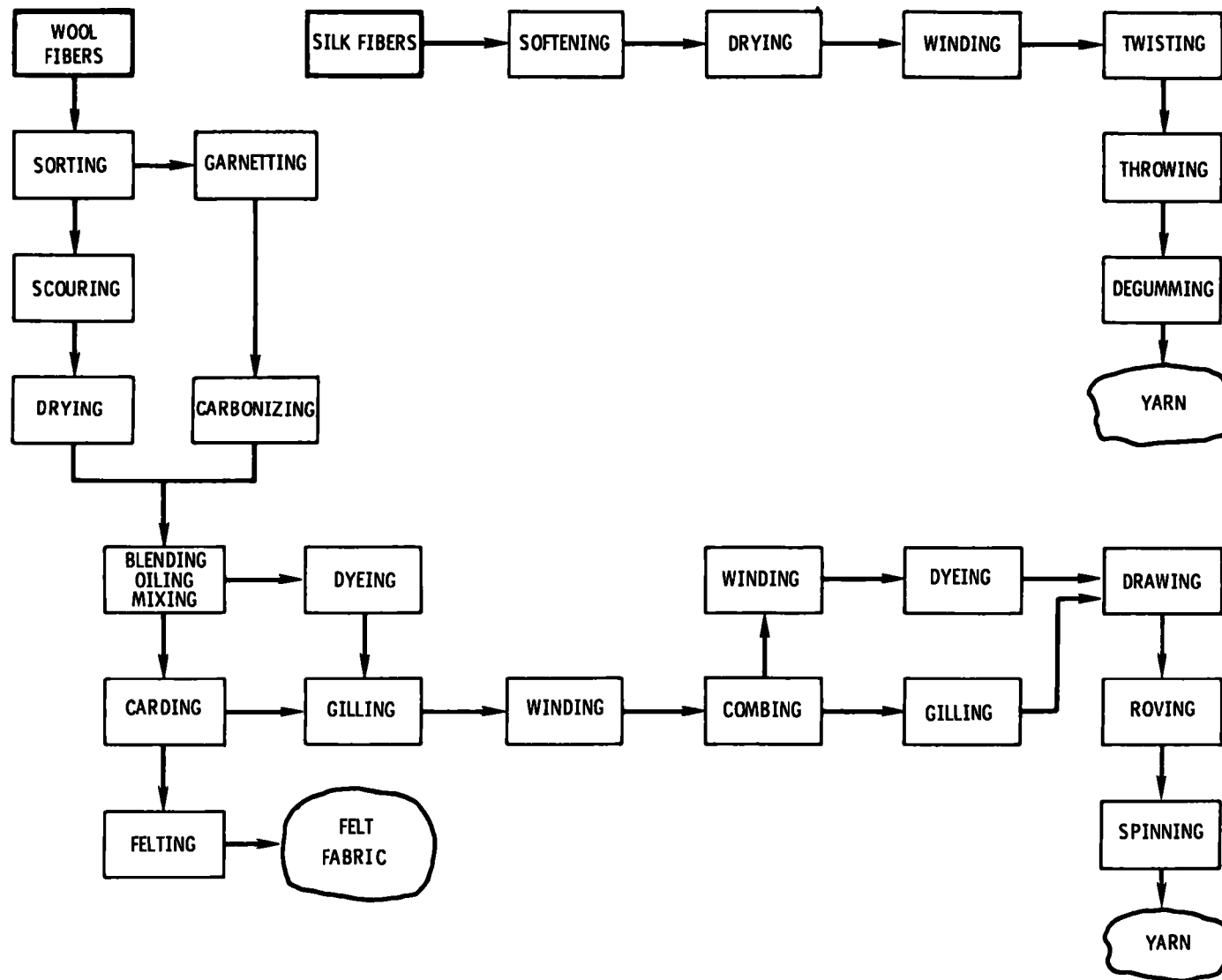


Figure 5A. Flowchart for animal fibers--fiber to yarn (including felt fabric).

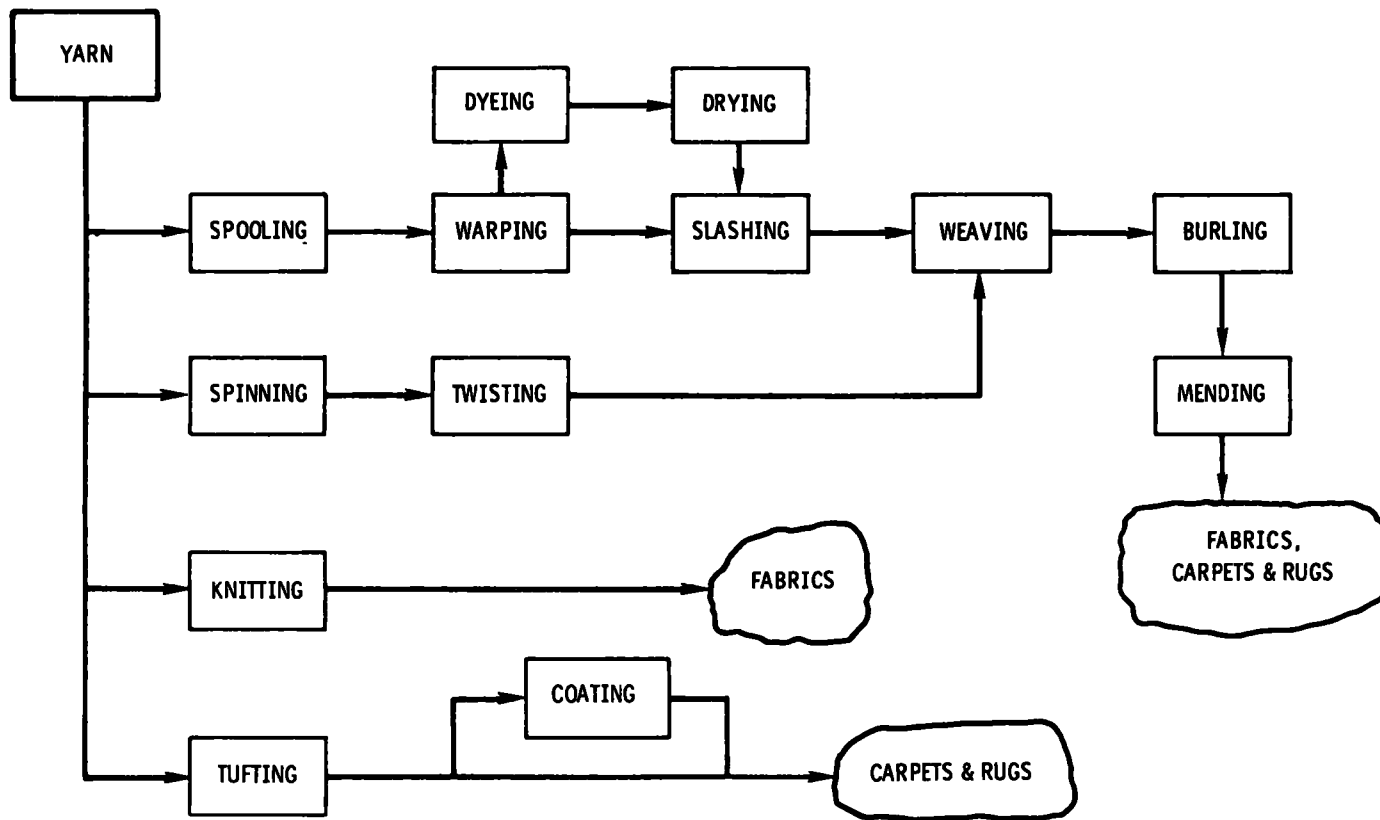


Figure 5B. Flowchart for animal fibers--yarn to fabric.

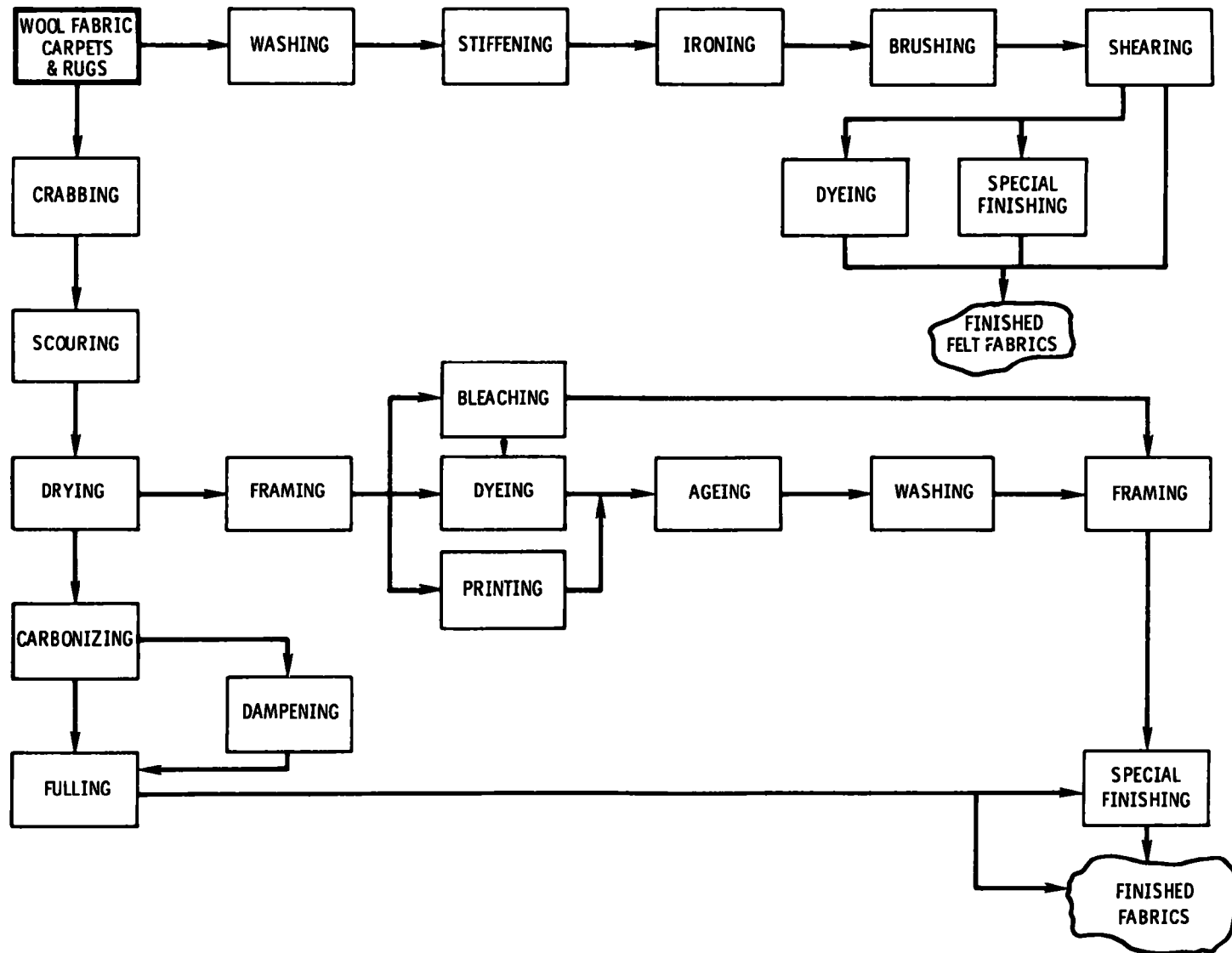


Figure 5C. Flowchart for animal fibers--fabric to finished fabric.

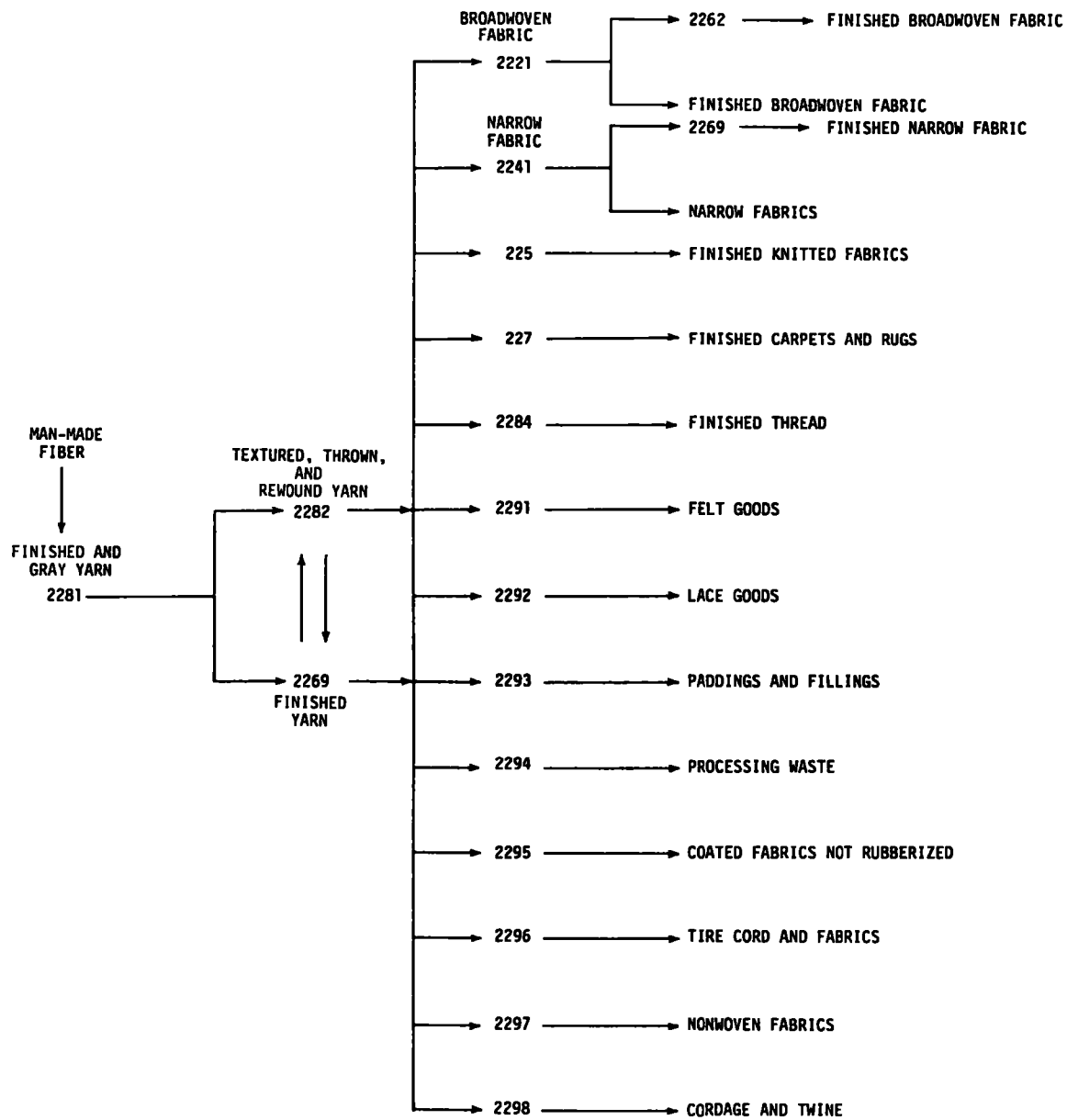


Figure 6. Primary products route--
man-made and silk fibers.

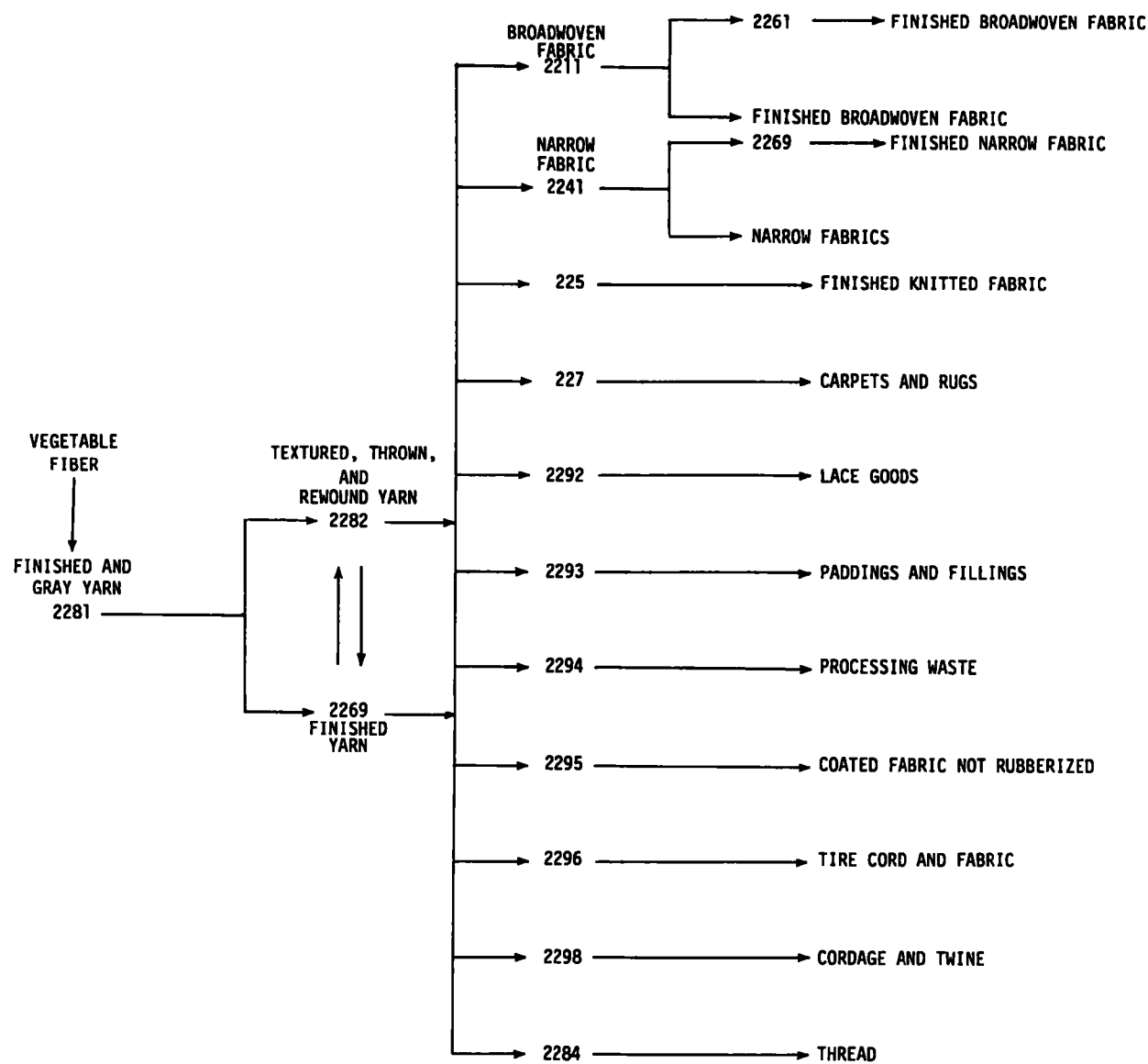


Figure 7. Primary products route--cotton and vegetable fibers.

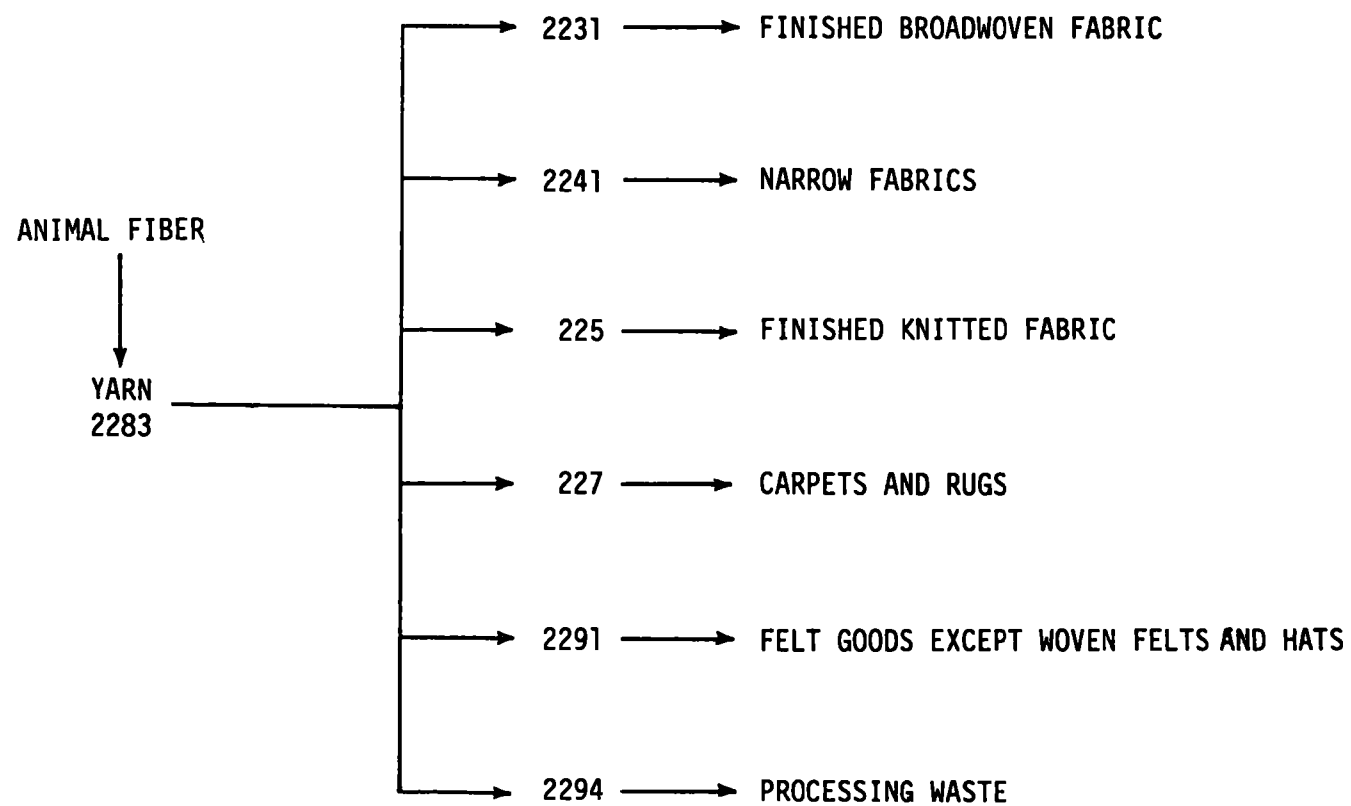


Figure 8. Primary products route--wool and animal fibers.

Table 7. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2211, COTTON WEAVING MILLS^a

1.	Spooling cotton yarn
2.	Warping cotton yarn
3.	Slashing cotton yarn
4.	Spinning cotton yarn
5.	Twisting cotton yarn
6.	Weaving cotton yarn
7.	Dyeing cotton yarn ^b
8.	Bleaching cotton yarn ^b
9.	Singeing woven cotton fabric
10.	Desizing woven cotton fabric ^b
11.	Scouring woven cotton fabric ^b
12.	Mercerizing woven cotton fabric ^b
13.	Dyeing woven cotton fabric ^b
14.	Printing woven cotton fabric ^b
15.	Bleaching woven cotton fabric ^b
16.	Special chemical finishing woven cotton fabric ^b
17.	Mechanical finishing woven cotton fabric
18.	Ammoniating cotton yarn ^b
19.	Ammoniating woven cotton fabric ^b
20.	Weaving cotton carpet and rug backing

^aIncludes cotton blends ($\geq 50\%$ cotton).

^bIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 8. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2221, MAN-MADE FIBER AND SILK WEAVING MILLS

1.	Spooling man-made yarn
2.	Warping man-made yarn
3.	Slashing man-made yarn
4.	Weaving man-made yarn
5.	Spinning man-made yarn

(continued)

Table 8 (continued).

6.	Twisting man-made yarn
7.	Dyeing man-made yarn ^a
8.	Bleaching man-made yarn ^a
9.	Desizing woven man-made fabric ^a
10.	Scouring woven man-made fabric ^a
11.	Singeing woven man-made fabric
12.	Ammoniating woven man-made fabric ^a
13.	Ammoniating man-made yarn ^a
14.	Bleaching woven man-made fabric ^a
15.	Dyeing woven man-made fabric ^a
16.	Printing woven man-made fabric ^a
17.	Special chemical finishing woven man-made fabric ^a
18.	Mechanical finishing woven man-made fabric ^a
19.	Weaving man-made carpet and run backing

^aIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 9. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2231, WOOL WEAVING AND FINISHING MILLS

1.	Fulling woven wool fabric ^a
2.	Crabbing woven wool fabric ^a
3.	Bleaching wool yarn ^a
4.	Bleaching woven wool fabric ^a
5.	Dyeing wool yarn ^a
6.	Dyeing woven wool fabric ^a
7.	Printing woven wool fabric ^a
8.	Special chemical finishing wool fabric ^a
9.	Mechanical finishing wool fabric

^aIncludes accompanying operations such as heat-set, rinses, drying, etc.

TABLE 10. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2241, NARROW FABRIC MILLS

1.	Spooling cotton yarn
2.	Spooling wool yarn
3.	Spooling man-made yarn
4.	Warping cotton yarn
5.	Warping wool yarn
6.	Warping man-made yarn
7.	Slashing cotton yarn
8.	Slashing wool yarn
9.	Slashing man-made yarn
10.	Weaving cotton yarn
11.	Weaving wool yarn
12.	Weaving man-made yarn
13.	Spinning cotton yarn
14.	Spinning wool yarn
15.	Spinning man-made yarn
16.	Twisting cotton yarn
17.	Twisting wool yarn
18.	Twisting man-made yarn
19.	Braiding cotton yarn
20.	Braiding wool yarn
21.	Braiding man-made yarn
22.	Manufacturing rubber-covered thread

TABLE 11. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 225, KNITTING MILLS

1.	Knitting cotton yarn ^a
2.	Knitting wool yarn ^a
3.	Knitting man-made yarn ^a
4.	Dyeing knitted cotton fabric ^b
5.	Bleaching knitted cotton fabric ^b

(continued)

Table 11 (continued).

6.	Printing knitted cotton fabric ^b
7.	Special chemical finishing knitted cotton fabric ^b
8.	Mechanical finishing knitted cotton fabric
9.	Singeing knitted cotton fabric
10.	Mercerizing knitted cotton fabric ^b
11.	Scouring knitted cotton fabric ^b
12.	Ammoniating knitted cotton fabric ^b
13.	Dyeing cotton yarn ^b
14.	Bleaching cotton yarn ^b
15.	Gassing cotton yarn
16.	Ammoniating cotton yarn ^b
17.	Bleaching knitted wool fabric ^b
18.	Printing knitted wool fabric ^b
19.	Dyeing knitted wool fabric ^b
20.	Special chemical finishing knitted wool fabric ^b
21.	Mechanical finishing knitted wool fabric
22.	Fulling knitted wool fabric ^b
23.	Crabbing knitted wool fabric ^b
24.	Dyeing wool yarn ^b
25.	Bleaching wool yarn ^b
26.	Dyeing knitted man-made fabric ^b
27.	Bleaching knitted man-made fabric ^b
28.	Printing knitted man-made fabric ^b
29.	Special chemical finishing knitted man-made fabric ^b
30.	Mechanical finishing knitted man-made fabric
31.	Scouring knitted man-made fabric ^b
32.	Ammoniating knitted man-made fabric ^b
33.	Dyeing man-made yarn ^b
34.	Bleaching man-made yarn ^b
35.	Ammoniating man-made yarn ^b
36.	Singeing knitted man-made fabric

^aIncludes all types of knitting operations such as jacquard, circular, flat, etc.

^bIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 12. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2261, COTTON FINISHING PLANTS^a

-
1. Singeing woven cotton fabric
 2. Scouring woven cotton fabric^b
 3. Mercerizing woven cotton fabric^b
 4. Dyeing woven cotton fabric^b
 5. Printing woven cotton fabric^b
 6. Bleaching woven cotton fabric^b
 7. Special chemical finishing woven cotton fabric^b
 8. Mechanical finishing woven cotton fabric
 9. Ammoniating woven cotton fabric^b
 10. Desizing woven cotton fabric^b
-

^aIncludes cotton blends ($\geq 50\%$ cotton).

^bIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 13. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2262, MAN-MADE FIBER AND SILK FINISHING PLANTS^a

-
1. Desizing woven man-made fabric^b
 2. Scouring woven man-made fabric^b
 3. Singeing woven man-made fabric
 4. Ammoniating woven man-made fabric^b
 5. Bleaching woven man-made fabric^b
 6. Dyeing woven man-made fabric^b
 7. Printing woven man-made fabric^b
 8. Special chemical finishing woven man-made fabric^b
 9. Mechanical finishing woven man-made fabric
 10. Dyeing man-made yarn^b
 11. Ammoniating man-made yarn^b
 12. Bleaching man-made yarn^b
-

^aIncludes natural/man-made blends $\geq 50\%$ man-made.

^bIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 14. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2269, FINISHING PLANTS, N.E.C.

1. Bleaching cotton yarn^a
2. Bleaching woven cotton fabric^a
3. Bleaching braided cotton fabric^a
4. Printing woven cotton fabric^a
5. Printing braided cotton fabric^a
6. Dyeing cotton yarn^a
7. Dyeing woven cotton fabric^a
8. Dyeing braided cotton fabric^a
9. Bleaching man-made yarn^a
10. Dyeing man-made yarn^a
11. Bleaching woven man-made fabric^a
12. Bleaching braided man-made fabric^a
13. Printing woven man-made fabric^a
14. Printing braided man-made fabric^a
15. Special chemical finishing woven cotton fabric^a
16. Special chemical finishing woven man-made fabric^a
17. Mechanical finishing woven cotton fabric
18. Mechanical finishing woven man-made fabric
19. Special chemical finishing braided cotton fabric^a
20. Special chemical finishing braided man-made fabric^a
21. Singeing woven cotton fabric
22. Mechanical finishing braided cotton fabric
23. Mechanical finishing braided man-made fabric
24. Singeing man-made woven fabric
25. Mercerizing woven cotton fabric^a
26. Scouring woven cotton fabric^a
27. Ammoniating woven cotton fabric^a
28. Gassing cotton yarn
29. Ammoniating cotton yarn^a
30. Ammoniating man-made yarn^a
31. Ammoniating woven man-made fabric^a
32. Desizing woven cotton fabric^a

(continued)

Table 14 (continued).

-
- 33. Desizing woven man-made fabric^a
 - 34. Desizing woven wool fabric^a
 - 35. Scouring woven man-made fabric^a
 - 36. Dyeing man-made yarn^a
 - 37. Dyeing woven man-made fabric^a
 - 38. Dyeing braided man-made fabric^a
 - 39. Dyeing cotton fibers^a
 - 40. Dyeing man-made fibers^a
 - 41. Bleaching cotton fibers^a
 - 42. Bleaching man-made fibers^a
-

^aIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 15. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 227, FLOOR COVERING MILLS

-
- 1. Tufting cotton rugs and carpets
 - 2. Tufting wool rugs and carpets
 - 3. Tufting man-made rugs and carpets
 - 4. Printing cotton rugs and carpets^a
 - 5. Printing wool rugs and carpets^a
 - 6. Printing man-made rugs and carpets^a
 - 7. Coating tufted cotton rugs and carpets^a
 - 8. Coating tufted wool rugs and carpets^a
 - 9. Coating tufted man-made rugs and carpets^a
 - 10. Weaving cotton rugs and carpets
 - 11. Weaving wool rugs and carpets
 - 12. Weaving man-made rugs and carpets
 - 13. Printing cotton warp-rugs and carpets^a
 - 14. Printing wool warp-rugs and carpets^a
 - 15. Printing man-made warp-rugs and carpets^a
 - 16. Dyeing cotton rugs and carpets^a
 - 17. Dyeing wool rugs and carpets^a

(continued)

Table 15 (continued).

-
18. Dyeing man-made rugs and carpets^a
 19. Manufacturing miscellaneous rugs and carpets
 20. Special chemical finishing wool rugs and carpets^a
 21. Special chemical finishing cotton rugs and carpets^a
 22. Special chemical finishing man-made rugs and carpets^a
 23. Mechanical finishing cotton rugs and carpets
 24. Mechanical finishing wool rugs and carpets
 25. Mechanical finishing man-made rugs and carpets
-

^aIncludes accompanying operations such as heat-set, drying, rinses, etc.

Table 16. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2281, YARN MILLS EXCEPT WOOL

-
1. Drawing man-made filaments
 2. Crimping man-made filaments
 3. Treating man-made tow
 4. Cutting man-made filaments
 5. Opening man-made staple fibers
 6. Converting man-made tow
 7. Blending man-made fibers
 8. Carding man-made fibers
 9. Combing man-made fibers
 10. Drawing man-made fibers
 11. Roving man-made fibers
 12. Spinning man-made fibers
 13. Opening cotton fibers
 14. Blending cotton fibers
 15. Carding cotton fibers
 16. Combing cotton fibers
 17. Drawing cotton fibers
 18. Roving cotton fibers
 19. Spinning cotton fibers

(continued)

Table 16 (continued).

-
- | | |
|-----|---------------------------|
| 20. | Dyeing cotton fibers |
| 21. | Dyeing man-made fibers |
| 22. | Bleaching cotton fibers |
| 23. | Bleaching man-made fibers |
-

Table 17. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2282, THROWING AND WINDING MILLS

-
- | | |
|-----|---------------------------------|
| 1. | Texturizing man-made filaments |
| 2. | Throwing man-made filaments |
| 3. | Twisting man-made filaments |
| 4. | Winding man-made filaments |
| 5. | Spooling man-made filaments |
| 6. | Throwing cotton yarn |
| 7. | Twisting cotton yarn |
| 8. | Winding cotton yarn |
| 9. | Spooling cotton yarn |
| 10. | Drawing man-made filaments |
| 11. | Chemically-treating cotton yarn |
| 12. | Slack mercerizing cotton yarn |
-

Table 18. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2283, WOOL YARN MILLS

-
- | | |
|----|-------------------------|
| 1. | Spinning wool yarn |
| 2. | Twisting wool yarn |
| 3. | Winding wool yarn |
| 4. | Spooling wool yarn |
| 5. | Sorting wool fibers |
| 6. | Scouring wool fibers |
| 7. | Carbonizing wool fibers |
| 8. | Dyeing wool yarn |
| 9. | Bleaching wool yarn |

(continued)

Table 18 (continued).

-
10. Bleaching wool fibers
 11. Dyeing wool fibers
 12. Gilling wool fibers
 13. Combing wool fibers
 14. Carding wool fibers
 15. Blending wool fibers
 16. Drawing wool fibers
 17. Roving wool fibers
 18. Spinning wool fibers
 19. Oiling wool fibers
-

Table 19. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2284, THREAD MILLS

-
1. Manufacturing man-made thread
 2. Manufacturing cotton thread
 3. Manufacturing wool thread
-

Table 20. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2291, FELT GOODS EXCEPT WOVEN FELTS AND HATS

-
1. Felting wool fibers
 2. Carding wool fibers
 3. Scouring wool fibers^a
 4. Carbonizing wool fibers^a
 5. Blending wool fibers
 6. Dampening wool fibers^a
 7. Fulling wool fibers^a
 8. Washing wool fibers^a
 9. Stiffening felt fabric^a
 10. Dyeing felt fabric^a
 11. Ironing felt fabric

(continued)

Table 20 (continued).

-
12. Brushing felt fabric
 13. Shearing felt fabric
 14. Special chemical finishing felt fabric^a
-

^aIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 21. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2292,

-
1. Gassing cotton yarn
 2. Dyeing lace fabric^a
 3. Bleaching lace fabric^a
 4. Printing lace fabric^a
 5. Mechanical finishing lace fabric
 6. Special chemical finishing lace fabric^a
 7. Lacemaking
-

^aIncludes accompanying operations such as heat-set, rinses, drying, etc.

Table 22. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2293, PADDINGS AND UPHOLSTERY FILLING

-
1. Paddings and filling manufacture
-

Table 23. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2294, PROCESSED TEXTILE WASTE

-
1. Garnetting wool fibers
 2. Manufacturing oakum and jute packing
 3. Recovering textile fibers
 4. Processing textile waste
-

Table 24. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2295, COATED FABRICS NOT RUBBERIZED

-
1. Manufacturing coated and impregnated textiles^a
 2. Special chemical finishing--coated fabrics^a
 3. Mechanical finishing--coated fabric
-

^aIncludes accompanying operations such as drying,
rinses, heat-set, etc.

Table 25. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2296, TIRE CORD AND FABRIC

-
1. Manufacturing tire cord and fabric
-

Table 26. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2297, NONWOVEN FABRICS

-
1. Web formation--nonwovens
 2. Man-made fiber opening
 3. Man-made fiber blending
 4. Web bonding--nonwovens
 5. Needling--nonwovens
-

Table 27. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2298, CORDAGE AND TWINE

-
1. Manufacturing cordage and twine
-

Table 28. AIR POLLUTION SOURCE TYPES IN TEXTILE MANUFACTURING--
SIC CODE 2299, MISCELLANEOUS TEXTILE GOODS

-
1. Bleaching linen fabric^a
 2. Weaving jute backing
 3. Manufacturing linen goods
 4. Breaking and scutching flax fibers

(continued)

Table 28 (continued).

5.	Hackling flax fibers
6.	Spinning flax fibers
7.	Dyeing linen fabric ^a
8.	Printing linen fabric ^a
9.	Manufacturing textile goods, N.E.C.
10.	Processing textile fibers
11.	Special chemical finishing linen fabric ^a
12.	Mechanical finishing linen fabric

^aIncludes accompanying operations such as heat-set, drying, rinses, etc.

Log No. _____

Confidence
Level _____

CATEGORY _____

SOURCE DESCRIPTION

SCC _____

TOTAL PRODUCTION _____ **(TONS/YEAR)**

FREQUENCY OF OPERATION _____ (% OF YEAR)

NUMBER OF PLANTS/SITES _____

NUMBER OF MATERIALS EMITTED _____

[illegible]

Figure 9. Prioritization form used for state-by-state and national listings.

LOCATION SENSITIVE PRIORITIZATION DATA
STATE INFORMATION

NUMBER OF STATES _____

[illegible]

44

To obtain the total mass emissions of a specific criteria pollutant in a particular state, the emission factor for the pollutant was multiplied by the annual production rate in the state. Similarly, the total mass emissions of a criteria pollutant in the nation was obtained by multiplying the emission factor for the pollutant by the annual total production in the U.S.

The state-by-state listing of emissions of criteria pollutants from textile manufacturing sources is shown throughout Table 29. In each state, for each source and criteria pollutant, the first number in each criteria pollutant column is the annual mass emissions. For example, the source entitled "Breaking and Scutching Flax Fibers" emits 1.5×10^3 kg/yr of particulates in Alabama. The second number in each criteria pollutant column refers to the percentage that the annual mass emissions represents in relation to emissions of that pollutant from all textile sources in that state. For that same source type, "Breaking and Scutching Flax Fibers," 1.5×10^3 kg/yr represents 0.065% of all particulates emitted from textile manufacturing sources in Alabama.

A review of Table 29 indicates that emissions of criteria pollutants from textile operations are confined to a few sources. In most states, cotton handling activities were responsible for 95+% of the particulate matter generated from textile industries. Synthetic polymer particulates normally amounted to 5% to 10% of the total. However, in New Jersey over two-thirds of the particulates from textile sources were associated with synthetic polymer operations. In Illinois, Wisconsin, Vermont, Maine, and Oregon 50% to 100% of the textile particulates could be attributed to wool operations. Asbestos and flax emissions were the sole textile particulates emitted in Missouri and Louisiana.

Table 29. STATE-BY-STATE LISTING OF CRITERIA POLLUTANT
EMISSIONS FROM TEXTILE MANUFACTURING SOURCES

STATE EMISSIONS REPORT FOR ALABAMA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.06500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING ASBESTOS FIBRES	0.6 0.02690	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING OF COTTON FIBRES	261.2 11.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 0.00542	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00213	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	1.0 0.04470	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	4.5 0.13300	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	0.6 0.02690	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING OF COTTON FIBRES	19.4 0.83300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 0.01080	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	375.7 16.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 0.01630	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	52.7 1.56000	0.0 0.00000	2	
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00011	0.0 0.00000	2	

Table 29 (continued).

DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00114	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.00457	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	5.1 0.09060	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	32.9 0.97100	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	131.5 3.88000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 0.01340	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	101.2 4.34000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.00542	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 0.03700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	1503.0 64.40000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	851.7 25.10000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 1.25000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	453.2 13.40000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1813.0 53.50000	0.0 0.00000	2
SINGEING COTTON FABRICS	5.2 0.22400	2.6 99.90000	1.5 99.90000	2.2 0.06600	0.7 99.90000	2
SINGEING LINEN FABRICS	0.0 0.00027	0.0 0.12100	0.0 0.12100	0.0 0.00008	0.0 0.12100	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 0.06390	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	2.0 0.08710	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	8.1 0.34800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

SPINNING SYNTHETIC POLYMERS	49.3 2,11000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 2 0.00000
STATE TOTALS	2332.0	2.6	1.5	3387.0	0.7	

STATE EMISSIONS REPORT FOR ALASKA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

STATE EMISSIONS REPORT FOR ARIZONA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

STATE EMISSIONS REPORT FOR ARKANSAS

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -
CAPDING ASBESTOS FIBRES	0.3 0.17800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING SYNTHETIC POLYMERS	0.7 0.42100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.0 0.47200	0.0 0.00000	2
COMBING ASBESTOS FIBRES	0.3 0.17800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

DRAWING AND SPINNING COTTON FIBRES	32.2 19,50000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
DYEING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	26.4 4,15000	0.0 0,00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00045	0.0 0,00000	2
DYEING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00180	0.0 0,00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	2.4 0,38200	0.0 0,00000	2
FINISHING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	9.7 1,53000	0.0 0,00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.1 0,08880	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF ASBESTOS FIBRES	0.4 0,24400	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF COTTON FIBRES	128.9 78,10000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PRINTING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	426.0 67,10000	0.0 0,00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	33.4 5,26000	0.0 0,00000	2
PRINTING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	133.5 21,00000	0.0 0,00000	2
SINGEING COTTON FABRICS	0.7 0,40200	0.3 100,00000	0.2 100,00000	0.3 1,04480	0.3 170,00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	0.7 0,42200	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0,09060	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
SPINNING RAYON FIBRE	0.6 0,36200	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
STATE TOTALS	165.1	0.3	0.2	634.6	0.1	

Table 29 (continued).

STATE EMISSIONS REPORT FOR CALIFORNIA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.12100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING ASBESTOS FIBRES	6.3 0.50300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - COTTON	0.1 0.00565	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 0.01010	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.05530	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	8.0 0.64000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	34.5 26.40000	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	6.3 0.50300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 0.02020	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	225.6 18.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 0.03040	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00277	0.0 0.00000	2	
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00309	0.0 0.00000	2	
FELTING WOOL FABRICS	0.0 0.00132	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 2.35000	0.0 0.00000	2	

Table 29 (continued).

FINISHING SILK FABRICS	0.0	0.0	0.0	3.4	0.0	2
	0.00000	0.00000	0.00000	2.62000	0.00000	
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	3.1	0.0	0.0	0.0	0.0	2
	0.25200	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE OF LINEN CLOTH	0.1	0.0	0.0	0.0	0.0	2
	0.01010	0.00000	0.00000	0.00000	0.00000	
PREPARATION OF ASBESTOS FIBRES	8.6	0.0	0.0	0.0	0.0	2
	0.69200	0.00000	0.00000	0.00000	0.00000	
PREPARATION OF COTTON FIBRES	902.5	0.0	0.0	0.0	0.0	2
	72.30000	0.00000	0.00000	0.00000	0.00000	
PRINTING LINEN FABRICS	0.0	0.0	0.0	42.3	0.0	2
	0.00000	0.00000	0.00000	32.40000	0.00000	
PRINTING SILK FABRICS	0.0	0.0	0.0	47.2	0.0	2
	0.00000	0.00000	0.00000	36.20000	0.00000	
SINGEING LINEN FABRICS	0.0	0.0	0.0	0.0	0.0	2
	0.00051	100.00000	100.00000	0.00207	100.00000	
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	14.9	0.0	0.0	0.0	0.0	2
	1.20000	0.00000	0.00000	0.00000	0.00000	
SPINNING SYNTHETIC POLYMERS	70.4	0.0	0.0	0.0	0.0	2
	5.64000	0.00000	0.00000	0.00000	0.00000	
STATE TOTALS	1248.0	0.0	0.0	130.5	0.0	

STATE EMISSIONS REPORT FOR CULOPANG

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

Table 29 (continued).

STATE EMISSIONS REPORT FOR CONNECTICUT

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOx ---	HC --	CO --	
BREAKING AND SCUTCHING FLAX FIBRES	0.1 0.01030	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING WOOL FIBRES	45.1 3.58000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.0 0.00086	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00028	0.0 0.00000	2
COMBING FLAX FIBRES	0.0 0.00171	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	35.3 2.81000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	225.6 17.90000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.0 0.00257	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	105.5 4.76000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00001	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00013	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00051	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00009	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00071	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00071	0.0 0.00000	2

Table 29 (continued).

FELTING WOOL FABRICS	0.0 0.00006	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.3 0.01180	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.10900	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 0.43700	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.07730	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	13.3 0.60000	0.0 0.00000	2
GILLING WOOL FIBRES	1.5 0.11900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.0 0.00006	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE AND PROCESSING OF ROPE	4.2 0.33700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	0.9 0.07300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	902.5 71.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1703.0 76.90000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.6 0.16300	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 1.51000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 6.03000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 1.07000	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	123.2 8.28000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.6 0.04630	0.3 99.90000	0.2 99.90000	0.2 0.01130	0.1 99.90000	2

Table 29 (continued).

SINGEING LINEN FABRICS	0.0 0.00004	0.0 0.09260	0.0 0.09260	0.0 0.00001	0.0 0.09260	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.01190	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.04750	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	42.2 3.35000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	1259.0	0.3	0.2	2214.0	0.1	

STATE EMISSIONS REPORT FOR DELAWARE

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	26.4 5.83000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	426.0 94.10000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.4 100.00000	0.2 100.00000	0.1 100.00000	0.2 0.03680	0.1 100.00000	2
STATE TOTALS	0.4	0.2	0.1	452.5	0.1	

Table 29 (continued).

STATE EMISSIONS REPORT FOR FLORIDA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				T -
		SO2 ---	NOX ---	HC --	CO --	
CARDING ASBESTOS FIBRES	0.6 16.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMING ASBESTOS FIBRES	0.6 16.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	105.5 5.82000	0.0 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.6 0.08930	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 8.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 22.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1703.0 94.10000	0.0 0.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 38.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	3.9	0.0	0.0	1811.0	0.0	

STATE EMISSIONS REPORT FOR GEORGIA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARDING ASBESTOS FIBRES	0.3 0.00748	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	

Table 29 (continued).

CARDING OF COTTON FIBRES	277.7 7.08000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING WOOL FIBRES	374.0 9.54000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - COTTON	0.2 0.00507	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.6 0.02010	0.0 0.00000	2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	7.9 0.09870	0.0 0.00000	2
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.02970	0.0 0.00000	2
CARPET BACKING SYNTHETIC POLYMERS	38.2 0.97500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	164.8 2.05000	0.0 0.00000	2
COMBING ASBESTOS FIBRES	0.3 0.00748	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING OF COTTON FIBRES	6.7 0.17000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	292.7 7.47000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	513.5 13.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	22.6 0.57600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	158.2 1.97000	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00101	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.3 0.00403	0.0 0.00000	2

Table 29 (continued).

DYEING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00003	0.0 0,00000	2
FINISHING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	28.3 0,35300	0.0 0,00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	68.7 0,85600	0.0 0,00000	2
FINISHING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	274.8 3,42000	0.0 0,00000	2
FINISHING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	1.7 0,02130	0.0 0,00000	2
GILLING WOOL FIBRES	12.4 0,31600	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.1 0,00374	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF COTTON FABRICS	196.5 5,01000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE AND PROCESSING OF ROPE	8.5 0,21600	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF ASBESTOS FIBRES	0.4 0,01030	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF COTTON FIBRES	2054.0 52,40000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PRINTING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	2555.0 31,80000	0.0 0,00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	946.7 11,80000	0.0 0,00000	2
PRINTING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	3787.0 47,20000	0.0 0,00000	2
PRINTING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	23.6 0,29400	0.0 0,00000	2
SINGEING COTTON FABRICS	6.7 0,17200	3.4 100,00000	1.9 100,00000	2.9 0,03600	1.0 100,00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	0.7 0,01780	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
SPINNING NATURAL POLYMER FIBRES	4.2 0,10800	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2

Table 29 (continued).

SPINNING RAYON FIBRE	17.0 0.43300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	94.4 2.41000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	3921.0	3.4	1.9	8024.0	1.0	

STATE EMISSIONS REPORT FOR HAWAII

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		

STATE EMISSIONS REPORT FOR IDAHO

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		

STATE EMISSIONS REPORT FOR ILLINOIS

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARDING ASBESTOS FIBRES	2.8 0.54800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING WOOL FIBRES	96.7 18.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - COTTON	0.0 0.00904	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	

Table 29 (continued).

COMRING ASBESTOS FIBRES	2.8 0.54800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	75.7 14.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	64.5 12.40000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	3.4 0.65700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	237.3 5.83000	0.0 0.00000	2
FELTING WOOL FABRICS	0.0 0.00318	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
GILLING WOOL FIBRES	3.2 0.61600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	1.4 0.27400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	3.9 0.75300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	257.9 49.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3833.0 94.20000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.7 0.14000	0.4 100.00000	0.2 100.00000	0.3 0.00766	0.1 100.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	6.8 1.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	520.0	0.4	0.2	4070.0	0.1	

Table 29 (continued).

STATE EMISSIONS REPORT FOR INDIANA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARPET BACKING SYNTHETIC POLYMERS	0.2 100.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.7 100.00000	0.0 0.00000	0.0	2
STATE TOTALS	0.2	0.0	0.0	0.7	0.0		

STATE EMISSIONS REPORT FOR IOWA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		

STATE EMISSIONS REPORT FOR KANSAS

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		

Table 29 (continued).

STATE EMISSIONS REPORT FOR KENTUCKY

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARDING OF COTTON FIBRES	9.0 1,71000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING WOOL FIBRES	19.3 3.66000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	0.5 0.09860	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.2 1.24000	0.0 0.00000	2	
COMBING WOOL FIBRES	15.1 2.86000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	96.7 18.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00157	0.0 0.00000	2	
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00629	0.0 0.00000	2	
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 1.34000	0.0 0.00000	2	
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 5.34000	0.0 0.00000	2	
GILLING WOOL FIBRES	0.6 0.12100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
PREPARATION OF COTTON FIBRES	386.8 73.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 18.40000	0.0 0.00000	2	
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 73.70000	0.0 0.00000	2	
SPINNING NATURAL POLYMER FIBRES	0.1 0.02830	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	

Table 29 (continued).

SPINNING RAYON FIBRE	0.6 0.11300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	528.9	0.0	0.0	181.2	0.0	

STATE EMISSIONS REPORT FOR LOUISIANA

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
BREAKING AND SCUTCHING FLAX FIBRES	1.5 24.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING ASBESTOS FIBRES	0.6 9.91000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 2.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.15900	0.0 0.00000	2
COMBING ASBESTOS FIBRES	0.6 9.91000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING FLAX FIBRES	0.3 4.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 5.99000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00794	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 6.75000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 4.96000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 2.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 13.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 93.10000	0.0 0.00000	2
SINGEING LINEN FABRICS	0.0 0.09990	0.0 100.00000	0.0 100.00000	0.0 0.00596	0.0 100.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 23.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	6.3	0.0	0.0	45.4	0.0	

STATE EMISSIONS REPORT FOR MAINF

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
		SO2 ---	NOX ---	HC --	CO --		
CARDING WOOL FIBRES	193.4 25.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
COMBING WOOL FIBRES	151.4 19.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
DRAWING AND SPINNING COTTON FIBRES	64.5 8.38000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
DRAWING AND SPINNING WOOL FIBRES	34.8 4.52000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00050	0.0 0.00000		2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00199	0.0 0.00000		2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00547	0.0 0.00000		2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00547	0.0 0.00000		2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.42300	0.0 0.00000		2

Table 29 (continued).

FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 1.69000	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	26.6 4.65000	0.0 0.00000	2
GILLING WOOL FIBRES	6.4 0.83300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	8.7 1.13000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	1.8 0.23900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	257.9 33.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 5.83000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 23.30000	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	366.7 64.10000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.2 0.02510	0.1 100.00000	0.1 100.00000	0.1 0.01450	0.0 100.00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.01940	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.07780	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	49.3 6.41000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	769.1	0.1	0.1	572.4	0.0	

Table 29 (continued).

STATE EMISSIONS REPORT FOR MARYLAND

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
DRAWING AND SPINNING COTTON FIBRES	64.5 20.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
PREPARATION OF COTTON FIBRES	257.9 80.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
STATE TOTALS	322.3	0.0	0.0	0.0	0.0		

STATE EMISSIONS REPORT FOR MASSACHUSETTS

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.08950	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING ASBESTOS FIBRES	1.3 0.07410	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING WOOL FIBRES	45.1 2.66000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00129	0.0 0.00000		2
CARPET BACKING - FLAX	0.1 0.00745	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00079	0.0 0.00000		2
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.00262	0.0 0.00000		2

Table 29 (continued).

CARPET BACKING SYNTHETIC POLYMERS	0.2 0.01020	0.0 0.00000	0.0 0.00000	3.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.7 0.00825	0.0 0.00000	2
COMBING ASBESTOS FIBRES	1.3 0.07410	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING FLAX FIBRES	0.3 0.01490	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	35.3 2.08000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	290.1 17.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0.02240	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	14.3 0.84300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	342.8 3.77000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00004	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00007	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00030	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00004	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00060	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00077	0.0 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	497.7 5.48000	0.0 0.00000	2
FELTING WOOL FABRICS	0.0 0.00255	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	30.8 0.33900	0.0 0.00000	2

Table 29 (continued).

FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.03380	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	5.7 0.06320	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	22.9 0.25300	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.4 0.03770	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	46.5 0.51200	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	7.7 0.08490	0.0 0.00000	2
GILLING WOOL FIBRES	1.5 0.08810	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.6 0.03710	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.00745	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE AND PROCESSING OF ROPE	8.5 0.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	4.1 0.24400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	1.7 0.10200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	1160.0 68.40000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	5536.0 60.90000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.46600	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	79.1 0.87000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	316.3 3.48000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	47.2 0.51900	0.0 0.00000	2

Table 29 (continued).

PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	824.9 9.08000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1274.0 14.00000	0.0 0.00000	2
SINGEING COTTON FABRICS	4.1 0.24000	2.0 99.80000	1.2 99.80000	1.7 0.01920	0.6 99.80000	2
SINGEING LINEN FABRICS	0.0 0.00037	0.0 0.15500	0.0 0.15500	0.0 0.00003	0.0 0.15500	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	3.0 0.17600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	0.4 0.02090	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	1.4 0.08360	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	119.7 7.06000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	1695.0	2.0	1.2	9084.0	0.6	

STATE EMISSIONS REPORT FOR MICHIGAN

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
MANUFACTURE AND PROCESSING OF ROPE	4.2 100.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	4.2	0.0	0.0	0.0	0.0	

Table 29 (continued).

STATE EMISSIONS REPORT FOR MINNESOTA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				

STATE EMISSIONS REPORT FOR MISSISSIPPI

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.89500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.06460	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 0.07460	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.15900	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING FLAX FIBRES	0.3 0.14900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	32.2 19.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0.22400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00793	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 6.74000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	5.8 3.41000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.07460	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

PREPARATION OF COTTON FIBRES	128.9 76.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 92.90000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.1 0.04880	0.0 92.90000	0.0 92.90000	0.0 0.07790	0.0 92.90000	2
SINGEING LINEN FABRICS	0.0 0.00373	0.0 7.10000	0.0 7.10000	0.0 0.00595	0.0 7.10000	2
STATE TOTALS	169.4	0.0	0.0	45.5	0.0	

STATE EMISSIONS REPORT FOR MISSOURI

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T --
		S02 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 24.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING ASBESTOS FIBRES	0.6 9.91000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 2.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.15900	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	0.6 9.91000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 4.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 5.99000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00794	0.0 0.00000	2	
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 6.75000	0.0 0.00000	2	

Table 29 (continued).

MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 4.96000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	-
MANUFACTURE OF LINEN CLOTH	0.1 2.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 13.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 93.10000	0.0 0.00000	2
SINGEING LINEN FABRICS	0.0 0.09990	0.0 100.00000	0.0 100.00000	0.0 0.00596	0.0 100.00000	2
SPINNING ASBESTOS FIBRE - TWISTING AND WINDING	1.5 23.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	6.3	0.0	0.0	45.4	0.0	

STATE EMISSIONS REPORT FOR MONTANA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				

STATE EMISSIONS REPORT FOR NEBRASKA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				

Table 29 (continued).

STATE EMISSIONS REPORT FOR NEVADA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
		SO2 ---	NOX ---	HC --	CO --		

STATE EMISSIONS REPORT FOR NEW HAMPSHIRE

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.21500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING ASBESTOS FIBRES	0.6 0.08870	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - COTTON	0.0 0.00162	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 0.01790	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00797	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	0.6 0.08870	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 0.03580	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	128.9 18.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 0.05370	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING WOOL FIBRES	12.4 1.75000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	26.4 2.91000	0.0 0.00000	2	

Table 29 (continued).

DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00040	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00031	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00126	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00201	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00201	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.33900	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.26700	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 1.07000	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	15.5 1.71000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 0.04440	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	5.8 0.81800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.01790	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	1.1 0.15200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 0.12200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	515.7 73.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	426.0 47.00000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 4.67000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 3.68000	0.0 0.00000	2

Table 29 (continued).

PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 14.70000	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	213.8 23.60000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.5 0.06660	0.2 98.70000	0.1 98.70000	0.2 0.02230	0.1 98.70000	2
SINGEING LINEN FABRICS	0.0 0.00089	0.0 1.32000	0.0 1.32000	0.0 0.00030	0.0 1.32000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 0.21100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.02120	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.08470	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	35.2 4.98000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	706.6	0.2	0.1	906.3	0.1	

STATE EMISSIONS REPORT FOR NEW JERSEY

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.45600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING ASBESTOS FIBRES	4.0 1.21000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 0.03800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00045	0.0 0.00000	2
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.6 0.00350	0.0 0.00000	2

Table 29 (continued).

CARPET BACKING SYNTHETIC POLYMERS	0.3 0.10400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.5 0.00944	0.0 0.00000	2
COMRING ASBESTOS FIBRES	4.0 1.21000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMRING FLAX FIBRES	0.3 0.07590	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0.11400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	659.2 4.16000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00002	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00010	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00011	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00011	0.0 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1135.0 7.15000	0.0 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	18.6 0.11700	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.01930	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	13.7 0.08630	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	15.5 0.09780	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	17.6 0.11100	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	2.0 0.60400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	72.2 21.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

MANUFACTURE OF LINEN CLOTH	0.1 0.03800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE AND PROCESSING OF ROPE	4.2 1.27000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	1.1 0.32200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	5.5 1.66000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	10650.0 67.10000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.26700	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	188.8 1.19000	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	213.8 1.35000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2905.0 18.30000	0.0 0.00000	2
SINGEING COTTON FABRICS	2.2 0.66600	1.1 99.70000	0.6 99.70000	1.0 0.00599	0.3 99.70000	2
SINGEING LINEN FABRICS	0.0 0.00190	0.0 0.28400	0.0 0.28400	0.0 0.00002	0.0 0.28400	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	9.6 2.87000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	225.2 67.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	332.9	1.1	0.6	15860.0	0.3	

STATE EMISSIONS REPORT FOR NEW MEXICO

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

Table 29 (continued).

STATE EMISSIONS REPORT FOR NEW YORK

SOURCE -----	PART ---	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.05010	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING ASBESTOS FIBRES	0.5 0.01660	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING WOOL FIBRES	6.4 0.21300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 0.00417	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00033	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	1.4 0.04590	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	6.0 0.02770	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	0.5 0.01660	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 0.00834	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING WOOL FIBRES	5.0 0.16700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	548.0 18.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 0.01250	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING WOOL FIBRES	6.0 0.19700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1002.0 4.64000	0.0 0.00000	2	
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00002	0.0 0.00000	2	

Table 29 (continued).

DYEING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00003	0.0 0,00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.1 0,00034	0.0 0,00000	2
DYEING WOOL FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.1 0,00034	0.0 0,00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	935.6 4,33000	0.0 0,00000	2
FELTING WOOL FABRICS	0.0 0,00107	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
FINISHING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	22.7 0,10500	0.0 0,00000	2
FINISHING LINEN FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	3.1 0,01420	0.0 0,00000	2
FINISHING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	5.1 0,02380	0.0 0,00000	2
FINISHING WOOL FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	62.1 0,28700	0.0 0,00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	14.5 0,06710	0.0 0,00000	2
GILLING WOOL FIBRES	0.2 0,00704	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 0,00829	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF COTTON FABRICS	83.8 2,77000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0,00417	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE AND PROCESSING OF ROPE	4.2 0,14000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
MANUFACTURE OF WOOL CLOTH	4.3 0,14200	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF ASBESTOS FIBRES	0.7 0,02280	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
PREPARATION OF COTTON FIBRES	2192.0 72,40000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2

Table 29 (continued).

PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	16180.0 74.90000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.19600	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	70.8 0.32800	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	855.3 3.96000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2396.0 11.10000	0.0 0.00000	2
SINGEING COTTON FABRICS	3.1 0.10400	1.6 99.80000	0.9 99.80000	1.3 0.00624	0.4 99.80000	2
SINGEING LINEN FABRICS	0.0 0.00021	0.0 0.20000	0.0 0.20000	0.0 0.00001	0.0 0.20000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.2 0.03940	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	168.9 5.56000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	3029.0	1.6	0.9	21600.0	0.5	

STATE EMISSIONS REPORT FOR N CAROLINA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR)				PERCENT OF STATE EMISSIONS	1
		S02 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.02310	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING ASBESTOS FIBRES	0.6 0.00955	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING OF COTTON FIBRES	619.1 9.43000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2

Table 29 (continued).

CARDING WOOL FIBRES	451.4 6.88000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.3 0.00106	0.0 0.00000	2
CARPET BACKING - COTTON	0.1 0.00214	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 0.00193	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00029	0.0 0.00000	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00046	0.0 0.00000	2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.6 0.00226	0.0 0.00000	2
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	5.6 0.02220	0.0 0.00000	2
CARPET BACKING SYNTHETIC POLYMERS	3.0 0.04500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	12.7 0.05080	0.0 0.00000	2
COMBING ASBESTOS FIBRES	0.6 0.00955	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING OF COTTON FIBRES	129.6 1.97000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING FLAX FIBRES	0.3 0.00385	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	353.3 5.38000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	831.0 12.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0.00578	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	7.8 0.11800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	501.0 2.00000	0.0 0.00000	2

Table 29 (continued).

DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00001	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.00092	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.9 0.00369	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00001	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00009	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00009	0.0 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	418.1 1.67000	0.0 0.00000	2
FELTING WOOL FABRICS	0.0 0.00009	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	68.8 0.27500	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.01220	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	196.4 0.78400	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	785.4 3.13000	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.00683	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	20.0 0.07960	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	6.5 0.02580	0.0 0.00000	2
GILLING WOOL FIBRES	14.9 0.22800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 0.00478	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	196.5 2.99000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

MANUFACTURE OF LINEN CLOTH	0.1 0.00193	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE AND PROCESSING OF ROPE	8.5 0.12900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	1.4 0.02100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 0.01310	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	3324.0 50.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	8091.0 32.30000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.16900	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2706.0 10.80000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	10830.0 43.20000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 0.09410	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	275.0 1.10000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1070.0 4.27000	0.0 0.00000	2
SINGEING COTTON FABRICS	13.3 0.20300	6.6 100.00000	3.8 100.00000	5.7 0.02270	1.9 100.00000	2
SINGEING LINEN FABRICS	0.0 0.00010	0.0 0.04750	0.0 0.04750	0.0 0.00001	0.0 0.04750	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 0.02270	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	12.1 0.18500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	48.5 0.73900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	542.0 8.26000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	6563.0	6.6	3.8	25060.0	1.9	

Table 29 (continued).

STATE EMISSIONS REPORT FOR N DAKOTA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

STATE EMISSIONS REPORT FOR OHIO

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.69300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING ASBESTOS FIBRES	2.6 1.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING WOOL FIBRES	19.3 8.84000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 0.05780	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.15800	0.0 0.00000	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.08420	0.0 0.00000	2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.41300	0.0 0.00000	2
COMBING ASBESTOS FIBRES	2.6 1.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING FLAX FIBRES	0.3 0.11600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	15.1 6.92000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	32.2 14.70000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

DRAWING AND SPINNING FLAX FIBRES	0.4 0.17300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	3.6 1.66000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00791	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 6.72000	0.0 0.00000	2
GILLING WOOL FIBRES	0.6 0.29300	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	1.3 0.60100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.05780	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	3.6 1.65000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	128.9 58.90000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 92.60000	0.0 0.00000	2
SINGEING LINEN FABRICS	0.0 0.00289	0.0 100.00000	0.0 100.00000	0.0 0.00593	0.0 100.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	6.2 2.86000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	218.8	0.0	0.0	45.7	0.0	

Table 29 (continued).

STATE EMISSIONS REPORT FOR OKLAHOMA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -
CARPET BACKING SYNTHETIC POLYMERS	0.9 0.53400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.7 100.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	32.2 19.80000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	0.6 0.39800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	128.9 79.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	162.7	0.0	0.0	3.7	0.0	

STATE EMISSIONS REPORT FOR OREGON

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
DRAWING AND SPINNING WOOL FIBRES	1.4 100.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
STATE TOTALS	1.4	0.0	0.0	0.0	0.0		

Table 29 (continued).

STATE EMISSIONS REPORT FOR PENNSYLVANIA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					r -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.06210	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING ASBESTOS FIBRES	1.8 0.07200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARDING WOOL FIBRES	51.6 2.11000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.00250	0.0 0.00000		2
CARPET BACKING - COTTON	0.1 0.00478	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET BACKING - FLAX	0.1 0.00517	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00077	0.0 0.00000		2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00082	0.0 0.00000		2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.4 0.00401	0.0 0.00000		2
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.2 0.01270	0.0 0.00000		2
CARPET BACKING SYNTHETIC POLYMERS	1.6 0.06400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	6.7 0.07170	0.0 0.00000		2
COMBING ASBESTOS FIBRES	1.8 0.07200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2
COMBING FLAX FIBRES	0.3 0.01030	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000		2

Table 29 (continued).

COMBING WOOL FIBRES	40.4 1.65000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	386.8 15.80000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0.01550	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	12.9 0.52800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	395.5 4.21000	0.0 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00004	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00010	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00040	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00002	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00080	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00080	0.0 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	278.7 2.97000	0.0 0.00000	2
FELTING WOOL FABRICS	0.0 0.00088	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	4.0 0.04310	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.03270	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	7.9 0.08420	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	31.6 0.33700	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.01820	0.0 0.00000	2

Table 29 (continued).

FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	64.3 0.68400	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	4.3 0.04590	0.0 0.00000	2
GILLING WOOL FIBRES	1.7 0.06990	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.9 0.03600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	40.5 1.66000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.00517	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	4.4 0.18200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	2.4 0.09910	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	1547.0 63.40000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	6388.0 68.00000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.45000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	109.0 1.16000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	436.2 4.64000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 0.25100	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	885.9 9.43000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	713.6 7.59000	0.0 0.00000	2
SINGEING COTTON FABRICS	1.2 0.05110	0.6 99.50000	0.4 99.50000	0.5 0.00569	0.2 99.50000	2
SINGEING LINEN FABRICS	0.0 0.00026	0.0 0.50400	0.0 0.50400	0.0 0.00003	0.0 0.50400	2

Table 29 (continued).

SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	4.2 0.17100	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	0.5 0.02000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	2.0 0.08000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	337.9 13.80000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	2442.0	0.6	0.4	9399.0	0.2	

STATE EMISSIONS REPORT FOR RHODE ISLAND

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
CARDING WOOL FIBRES	58.0 4.64000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING - COTTON	0.1 0.00747	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMBING WOOL FIBRES	45.4 3.64000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	193.4 15.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	7.9 0.62900	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	316.4 4.07000	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00015	0.0 0.00000	2

Table 29 (continued).

DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00003	0.0 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00050	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00131	0.0 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	258.8 3.33000	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.03110	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 0.12400	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.02200	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.2 0.42700	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	4.0 0.05150	0.0 0.00000	2
GILLING WOOL FIBRES	1.9 0.15400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	20.2 1.62000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE AND PROCESSING OF ROPE	4.2 0.34000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	2.3 0.18400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	773.6 61.90000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	5110.0 65.70000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 0.42900	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 1.72000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 0.30300	0.0 0.00000	2

Table 29 (continued).

PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1192.0 15.30000	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	662.5 8.51000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.8 0.06000	0.4 100.00000	0.2 100.00000	0.3 0.00413	0.1 100.00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.01200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.04790	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	140.8 11.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	1249.0	0.4	0.2	7782.0	0.1	

STATE EMISSIONS REPORT FOR S CAROLINA

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.03040	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING ASBESTOS FIBRES	0.6 0.01260	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING OF COTTON FIBRES	193.6 3.88000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARDING WOOL FIBRES	193.4 3.88000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.2 0.00091	0.0 0.00000	2
CARPET BACKING - FLAX	0.1 0.00253	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

CARPET DYEING AND DRYING FLAX	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.1 0,00028	0.0 0,00000	2
CARPET DYEING AND DRYING WOOL	0.0 0,00000	0.0 0,00000	0.0 0,00000	2.4 0,00927	0.0 0,00000	2
CARPET BACKING SYNTHETIC POLYMERS	3.0 0,05920	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0,00000	0.0 0,00000	0.0 0,00000	12.7 0,04960	0.0 0,00000	2
COMBING ASBESTOS FIBRES	0.6 0,01260	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
COMBING OF COTTON FIBRES	8.3 0,16700	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
COMBING FLAX FIBRES	0.3 0,00506	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
COMBING WOOL FIBRES	151.4 3,03000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
DRAWING AND SPINNING COTTON FIBRES	689.9 13,80000	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
DRAWING AND SPINNING FLAX FIBRES	0.4 0,00759	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
DRAWING AND SPINNING WOOL FIBRES	4.5 0,09070	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2
DYEING COTTON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	448.2 1,74000	0.0 0,00000	2
DYEING LINEN FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00001	0.0 0,00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.3 0,00106	0.0 0,00000	2
DYEING RAYON FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	1.1 0,00423	0.0 0,00000	2
DYEING SILK FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00001	0.0 0,00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0,00000	0.0 0,00000	0.0 0,00000	318.5 1,24000	0.0 0,00000	2
FEELING WOOL FABRICS	0.0 0,00033	0.0 0,00000	0.0 0,00000	0.0 0,00000	0.0 0,00000	2

Table 29 (continued).

FINISHING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	121.5 0.47300	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.01190	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	231.0 0.89900	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	924.2 3.60000	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.00666	0.0 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	4.9 0.01920	0.0 0.00000	2
GILLING WOOL FIBRES	6.4 0.12800	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.3 0.00628	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	271.7 5.44000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.00253	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.9 0.01730	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	2759.0 55.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	6814.0 26.50000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 0.16500	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3184.0 12.40000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	12740.0 49.60000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 0.09180	0.0 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	815.6 3.17000	0.0 0.00000	2

Table 29 (continued).

SINGEING COTTON FABRICS	20.2 0.40400	10.1 100.00000	5.8 100.00000	8.6 0.03360	2.9 100.00000	2
SINGEING LINEN FABRICS	0.0 0.00013	0.0 0.03130	0.0 0.03130	0.0 0.00001	0.0 0.03130	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	1.5 0.02980	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	14.3 0.28600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	57.1 1.14000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	612.4 12.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	4992.0	10.1	5.8	25700.0	2.9	

STATE EMISSIONS REPORT FOR S DAKOTA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -

STATE EMISSIONS REPORT FOR TENNESSEE

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS				
		SO2 ---	NOX ---	HC --	CO --	T -
CARDING OF COTTON FIBRES	19.4 3.11000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
CARPET BACKING SYNTHETIC POLYMERS	3.1 0.50200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2

Table 29 (continued).

CARPET DYING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	13.5 0.46400	0.0 0.00000	2
COMBING OF COTTON FIBRES	8.3 1.34000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	114.1 18.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	158.2 5.44000	0.0 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00010	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00039	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.08330	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 0.33300	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	20.2 3.25000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	456.3 73.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2555.0 87.90000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 1.15000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 4.59000	0.0 0.00000	2
SINGEING COTTON FABRICS	0.9 0.14800	0.5 100.00000	0.3 100.00000	0.4 0.01360	0.1 100.00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.02400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.09600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	623.1	0.5	0.3	2906.0	0.1	

Table 29 (continued).

STATE EMISSIONS REPORT FOR TEXAS

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARDING ASBESTOS FIBRES	2.9 1.71000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING OF COTTON FIBRES	9.0 5.28000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	0.5 0.30500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.2 96.40000	0.0 0.00000	2	
COMBING ASBESTOS FIBRES	2.9 1.71000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	22.2 13.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	1.5 0.85700	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
MANUFACTURE OF COTTON FABRICS	31.8 18.60000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
PREPARATION OF ASBESTOS FIBRES	4.0 2.36000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
PREPARATION OF COTTON FIBRES	89.0 52.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
SINGEING COTTON FABRICS	0.2 0.11300	0.1 100.00000	0.1 100.00000	0.1 3.55000	0.0 100.00000	2	
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	7.0 4.07000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
STATE TOTALS	171.1	0.1	0.1	2.3	0.0		

Table 29 (continued).

STATE EMISSIONS REPORT FOR UTAH

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				

STATE EMISSIONS REPORT FOR VERMONT

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					CO --	T -
		SO2 ---	NOX ---	HC --				
DYING AND DRYING WOOL FIBRE STOCK	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00796	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00796	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	8.9 6.76000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF WOOL CLOTH	0.6 100.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	122.2 93.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	0.6	0.0	0.0	131.1		0.0		

Table 29 (continued).

STATE EMISSIONS REPORT FOR VIRGINIA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
BREAKING AND SCUTCHING FLAX FIBRES	1.5 0.32000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING OF COTTON FIBRES	19.4 4.08000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING WOOL FIBRES	45.1 9.51000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING COTTON	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00254	0.0 0.00000	2	
CARPET BACKING - FLAX	0.1 0.02660	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING FLAX	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.1 0.00624	0.0 0.00000	2	
CARPET DYEING AND DRYING WOOL	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.6 0.04800	0.0 0.00000	2	
CARPET BACKING SYNTHETIC POLYMERS	0.3 0.07330	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.5 0.12900	0.0 0.00000	2	
COMBING FLAX FIBRES	0.3 0.05330	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING WOOL FIBRES	35.3 7.44000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	42.8 9.02000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING FLAX FIBRES	0.4 0.07990	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	52.7 4.56000	0.0 0.00000	2	
DYEING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00031	0.0 0.00000	2	

Table 29 (continued).

DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00025	0.0 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00098	0.0 0.00000	2
DYEING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00017	0.0 0.00000	2
FELTING WOOL FABRICS	0.0 0.00120	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	3.1 0.26500	0.0 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 0.20900	0.0 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 0.83700	0.0 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	1.7 0.14800	0.0 0.00000	2
GILLING WOOL FIBRES	1.5 0.31500	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF COTTON FABRICS	20.2 4.26000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF LINEN CLOTH	0.1 0.02660	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	171.2 36.10000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	851.7 73.60000	0.0 0.00000	2
PRINTING LINEN FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	42.3 3.66000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 2.88000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 11.50000	0.0 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	23.6 2.04000	0.0 0.00000	2
SINGEING COTTON FABRICS	1.8 0.37600	0.9 99.60000	0.5 99.60000	0.8 0.06620	0.3 99.60000	2

Table 29 (continued).

SINGEING LINEN FABRICS	0.0 0.00133	0.0 0.35300	0.0 0.35300	0.0 0.00023	0.0 0.35300	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.03150	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.12600	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING SYNTHETIC POLYMERS	133.7 28.20000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	474.6	0.9	0.5	1157.0	0.3	

STATE EMISSIONS REPORT FOR WASHINGTON

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T
	PART ----	SO2 ---	NOX ---	HC --	CO --	
CARDING ASBESTOS FIBRES	0.1 16.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
COMPING ASBESTOS FIBRES	0.1 16.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.1 8.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.2 22.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	0.3 38.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	0.8	0.0	0.0	0.0	0.0	

Table 29 (continued).

STATE EMISSIONS REPORT FOR W VIRGINIA

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		

STATE EMISSIONS REPORT FOR WISCONSIN

SOURCE -----	PART ----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T -
		SO2 ---	NOX ---	HC --	CO --		
CARDING ASPESTOS FIBRES	0.1 0.01840	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
CARDING WOOL FIBRES	193.4 28.50000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMRING ASBFESTOS FIBRES	0.1 0.01840	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
COMBING WOOL FIBRES	151.4 22.30000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING COTTON FIBRES	64.5 9.51000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DRAWING AND SPINNING WOOL FIBRES	2.9 0.43200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	
DYEING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00159	0.0 0.00000	2	
DYEING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00637	0.0 0.00000	2	
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	2.4 1.35000	0.0 0.00000	2	
FINISHING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	9.7 5.41000	0.0 0.00000	2	
GILLING WOOL FIBRES	6.4 0.94400	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2	

Table 29 (continued).

MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	0.1 0.00921	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF ASBESTOS FIBRES	0.2 0.02530	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PREPARATION OF COTTON FIBRES	257.9 38.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	33.4 18.60000	0.0 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000	0.0 0.00000	0.0 0.00000	133.5 74.60000	0.0 0.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	0.3 0.04370	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING NATURAL POLYMER FIBRES	0.1 0.02210	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
SPINNING RAYON FIBRE	0.6 0.08820	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	2
STATE TOTALS	678.0	0.0	0.0	179.0	0.0	

STATE EMISSIONS REPORT FOR WYOMING

SOURCE -----	PART -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF STATE EMISSIONS					T --
		SO2 ---	NOX ---	HC --	CO --		

Textile printing operations are the source of most of the hydrocarbon emissions from textile manufacturing in all the states except Indiana, Oklahoma, Texas, and California. In these states, carpet dyeing operations account for the hydrocarbon emissions. Approximately two-thirds of the hydrocarbons from textile printing operations in half the states are attributed to the printing of cotton. The largest textile manufacturing states, Georgia, South Carolina, and North Carolina, in addition to Kentucky, Wisconsin, and Arkansas, generate 60+% of the state textile hydrocarbon emissions from the printing of rayon and natural polymers. Mississippi, California, Missouri, Ohio, and Maine have large hydrocarbon levels from silk and linen printing. The New England states have significant hydrocarbon levels from wool printing operations.

Mass emissions of nitrogen oxide, sulfur oxide, and carbon monoxide are minor from textile processing operations. They are primarily a result of the singeing of cotton and linen.

A state totals list, shown in Table 30, was generated to show the total mass emissions from all textile sources per state and the percentage that their emissions represent with respect to all textile sources in the nation. For example, the state of Alabama emits $2,332 \times 10^3$ kg/yr of particulates from all textile sources. This amount accounts for 6.74% of the particulate emissions from all textile sources in the nation as shown in the second entry under particulates for Alabama.

Textile manufacturing in eight states (Georgia, Massachusetts, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, and South Carolina) accounts for 87% of the total hydrocarbon emissions and 70% of the total particulate. Nitrogen oxide, sulfur oxide, and carbon monoxide mass levels are

Table 30. TOTAL CRITERIA POLLUTANT EMISSIONS FROM
TEXTILE MANUFACTURING SOURCES IN EACH STATE

STATE -----	PART -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF US TOTALS				T --
		SO2 ---	NOX ---	HC --	CO --	
1 ALABAMA	2332.0 6.74000	2.6 8.30000	1.5 8.30000	3387.0 2.39000	0.7 8.30000	
2 ALASKA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
3 ARIZONA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
4 ARKANSAS	165.1 0.47700	0.3 1.05000	0.2 1.05000	634.6 0.44900	0.1 1.05000	
5 CALIFORNIA	1248.0 3.61000	0.0 0.01000	0.0 0.01000	130.5 0.09230	0.0 0.01000	
6 COLORADO	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
7 CONNECTICUT	1259.0 3.64000	0.3 0.92600	0.2 0.92600	2214.0 1.57000	0.1 0.92600	
8 DELAWARE	0.4 0.00112	0.2 0.61700	0.1 0.61700	452.5 0.32000	0.1 0.61700	
9 FLORIDA	3.9 0.01130	0.0 0.00000	0.0 0.00000	1811.0 1.28000	0.0 0.00000	
10 GEORGIA	3921.0 11.30000	3.4 10.70000	1.9 10.70000	8024.0 5.67000	1.0 10.70000	
11 HAWAII	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
12 IDAHO	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
13 ILLINOIS	520.0 1.30000	0.4 1.16000	0.2 1.16000	4070.0 2.88000	0.1 1.16000	
14 INDIANA	0.2 0.00050	0.0 0.00000	0.0 0.00000	0.7 0.00053	0.0 0.00000	
15 IOWA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
16 KANSAS	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
17 KENTUCKY	528.9 1.53000	0.0 0.00000	0.0 0.00000	181.2 0.12800	0.0 0.00000	
18 LOUISIANA	6.3 0.01830	0.0 0.01000	0.0 0.01000	45.4 0.03210	0.0 0.01000	
19 MAINE	769.1 2.22000	0.1 0.30700	0.1 0.30700	572.4 0.40500	0.0 0.30700	
20 MARYLAND	322.3 0.93200	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	
21 MASSACHUSETTS	1695.0 4.90000	2.0 6.49000	1.2 6.49000	9084.0 6.42000	0.6 6.49000	

Table 30 (continued).

22	MICHIGAN	4.2 0.01230	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
23	MINNESOTA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
24	MISSISSIPPI	169.4 0.49000	0.0 0.14100	0.0 0.14100	45.5 0.03220	0.0 0.14100
25	MISSOURI	6.3 0.01830	0.0 0.01000	0.0 0.01000	45.4 0.03210	0.0 0.01000
26	MONTANA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
27	NEBRASKA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
28	NEVADA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
29	NEW HAMPSHIRE	706.6 2.04000	0.2 0.75800	0.1 0.75800	906.3 0.64100	0.1 0.75800
30	NEW JERSEY	332.9 0.96200	1.1 3.53000	0.6 3.53000	15860.0 11.20000	0.3 3.53000
31	NEW MEXICO	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
32	NEW YORK	3029.0 8.75000	1.6 5.01000	0.9 5.01000	21600.0 15.30000	0.5 5.01000
33	N CAROLINA	6563.0 19.00000	6.6 21.10000	3.8 21.10000	25060.0 17.70000	1.9 21.10000
34	N DAKOTA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
35	OHIO	218.8 0.63200	0.0 0.01000	0.0 0.01000	45.7 0.03230	0.0 0.01000
36	OKLAHOMA	162.7 0.47000	0.0 0.00000	0.0 0.00000	3.7 0.00265	0.0 0.00000
37	OREGON	1.4 0.00415	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
38	PENNSYLVANIA	2442.0 7.06000	0.6 1.99000	0.4 1.99000	9399.0 6.65000	0.2 1.99000
39	RHODE ISLAND	1249.0 3.61000	0.4 1.19000	0.2 1.19000	7782.0 5.50000	0.1 1.19000
40	S CAROLINA	4992.0 14.40000	10.1 32.00000	5.8 32.00000	25700.0 18.20000	2.9 32.00000
41	S DAKOTA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
42	TENNESSEE	623.1 1.80000	0.5 1.46000	0.3 1.46000	2906.0 2.05000	0.1 1.46000
43	TEXAS	171.1 0.49400	0.1 0.30700	0.1 0.30700	2.3 0.00165	0.0 0.30700
44	UTAH	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
45	VERMONT	0.6 0.00177	0.0 0.00000	0.0 0.00000	131.1 0.09270	0.0 0.00000
46	VIRGINIA	474.5 1.37000	0.9 2.85000	0.5 2.85000	1157.0 0.81800	0.3 2.85000

Table 30 (continued).

47 WASHINGTON	0.8 0.00226	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
48 W VIRGINIA	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
49 WISCONSIN	678.0 1.96000	0.0 0.00000	0.0 0.00000	179.0 0.12700	0.0 0.00000
50 WYOMING	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000	0.0 0.00000
US TOTALS	34600.0	31.5	18.0	141400.0	9.0

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low, with 50+% of the total emanating from North and South Carolina.

The total state emissions from textile manufacturing (Table 30) divided by the state totals for each criteria pollutant from all air pollution sources (from Table 31) yields the percentage attributed to the textile industry per state. For example textile plants in Alabama emit $2,332 \times 10^3$ kg/yr of particulate, whereas $2,118,000 \times 10^3$ kg (Table 31) are emitted from all sources in the state. Therefore, 0.1% of the particulates in the state are from textile sources.

In Table 31, the percentage value below the mass emission value represents the state's contribution to the national burden of a specific criteria pollutant expressed as a percent of the U.S. total. Using the example in Alabama, the $2,118,000 \times 10^3$ kg of total particulates emitted account for 1.64% of the total mass emission of particulates from all sources in the U.S.

The national listing of criteria pollutants emitted from each textile manufacturing source is shown in Table 32. For each source and each criteria pollutant, the first line represents the annual mass emissions of each pollutant from each source. For example, the source "Breaking and Scutching Flax Fibers" emits 21.4×10^3 kg/yr of particulates in the U.S. The second line represents for each source and criteria pollutant, the percentage that the source represents with respect to all textile sources. For the source "Breaking and Scutching Flax Fibers" the 21.4×10^3 kg/yr of particulates represents 0.0617% of the particulate emissions from all textile sources in the U.S. The third line for this same source shows the percent of emissions from all sources of air emissions. Hence, 21.4×10^3 kg/yr of

Table 31. MASS EMISSIONS OF CRITERIA POLLUTANTS PER STATE FROM ALL SOURCES IN U.S. AND PERCENT OF U.S. TOTAL

STATE TOTALS FOR 13 MAY 1977		MASS OF EMISSIONS (1000 KG/YR) PERCENT OF US TOTALS				
STATE -----	PART ----	SO2 ---	NOX ---	HC --	CO --	T -
1 ALABAMA	2118000.0 1.64000	802300.0 3.30000	268000.0 2.89000	226700.0 1.37000	3703000.0 4.20000	
2 ALASKA	16270000.0 12.60000	88740.0 0.36400	17830.0 0.19200	33000.0 0.19900	5760.0 0.00654	
3 ARIZONA	3296000.0 2.55000	57280.0 0.23500	36480.0 0.39400	98840.0 0.59600	147600.0 0.16700	
4 ARKANSAS	1641000.0 1.27000	61440.0 0.25200	62150.0 0.67000	136400.0 0.82200	107600.0 0.12200	
5 CALIFORNIA	5833000.0 4.50000	607000.0 2.49000	391700.0 4.23000	1423000.0 8.58000	2796000.0 3.17000	
6 COLORADO	3198000.0 2.47000	226500.0 0.93000	95430.0 1.03000	145600.0 0.87800	1436000.0 1.63000	
7 CONNECTICUT	318400.0 0.24600	200700.0 0.82400	72420.0 0.78100	207400.0 1.25000	106200.0 0.12100	
8 DELAWARE	142500.0 0.11000	131000.0 0.53800	39190.0 0.42300	65960.0 0.39800	97410.0 0.11100	
9 FLORIDA	2352000.0 1.82000	699500.0 2.87000	277500.0 2.99000	426900.0 2.57000	3113000.0 3.53000	
10 GEORGIA	2148000.0 1.66000	484600.0 1.99000	205400.0 2.22000	321800.0 1.94000	601300.0 0.68200	
11 HAWAII	235800.0 0.18200	37620.0 0.15500	17240.0 0.18600	52910.0 0.31900	64920.0 0.07370	
12 IDAHO	2411000.0 1.86000	40820.0 0.16800	14120.0 0.15200	57480.0 0.34700	103000.0 0.11700	
13 ILLINOIS	3144000.0 2.43000	1593000.0 6.54000	564200.0 6.09000	828600.0 5.00000	6401000.0 7.26000	
14 INDIANA	2266000.0 1.75000	1348000.0 5.53000	433000.0 4.67000	419700.0 2.53000	13130000.0 14.90000	
15 IOWA	2155000.0 1.66000	209200.0 0.85900	93220.0 1.01000	187400.0 1.13000	32660.0 0.03710	
16 KANSAS	3191000.0 2.46000	119900.0 0.49300	99910.0 1.08000	239700.0 1.45000	74330.0 0.08430	
17 KENTUCKY	1713000.0 1.32000	871300.0 3.58000	289400.0 3.12000	229500.0 1.38000	1099000.0 1.25000	
18 LOUISIANA	1698000.0 1.31000	323400.0 1.33000	272100.0 2.94000	1008000.0 6.08000	745500.0 0.84600	
19 MAINE	1002000.0 0.77400	151900.0 0.62400	33010.0 0.35600	57100.0 0.34400	41000.0 0.04650	
20 MARYLAND	764700.0 0.59100	392500.0 1.61000	136700.0 1.47000	244500.0 1.47000	4633000.0 5.26000	
21 MASSACHUSETTS	553100.0 0.42700	442500.0 1.82000	145200.0 1.57000	368400.0 2.22000	41740.0 0.04740	
22 MICHIGAN	2764000.0 2.13000	1131000.0 4.65000	390800.0 4.22000	537300.0 3.24000	5380000.0 6.10000	
23 MINNESOTA	2911000.0 2.25000	386900.0 1.59000	140500.0 1.52000	251100.0 1.51000	1069000.0 1.21000	
24 MISSISSIPPI	1516000.0 1.17000	109400.0 0.44900	66500.0 0.71700	209500.0 1.26000	160400.0 0.18200	

25	MISSOURI	3209000.0 2.48000	711900.0 2.92000	241300.0 2.60000	309900.0 1.87000	113400.0 0.12900
26	MONTANA	4988000.0 3.85000	74020.0 0.30400	28840.0 0.31100	82820.0 0.49900	139400.0 0.15800
27	NEBRASKA	2862000.0 2.21000	79660.0 0.32700	47850.0 0.51600	102400.0 0.61800	24030.0 0.02730
28	NEVADA	3143000.0 2.43000	142900.0 0.58700	56310.0 0.60700	23370.0 0.14100	14720.0 0.01670
29	NEW HAMPSHIRE	313700.0 0.24200	84650.0 0.34800	22820.0 0.24600	37210.0 0.22400	16030.0 0.01820
30	NEW JERSEY	688100.0 0.53100	495400.0 2.03000	194600.0 2.10000	634100.0 3.82000	115800.0 0.13100
31	NEW MEXICO	3524000.0 2.72000	294700.0 1.21000	114000.0 1.23000	115600.0 0.69700	11740.0 0.01330
32	NEW YORK	2694000.0 2.08000	1232000.0 5.06000	397500.0 4.29000	1096000.0 6.61000	3610000.0 4.10000
33	N CAROLINA	2055000.0 1.59000	854000.0 3.51000	293600.0 3.17000	339700.0 2.05000	248300.0 0.28200
34	N DAKOTA	2732000.0 2.11000	97410.0 0.40000	40640.0 0.43800	39810.0 0.24000	12690.0 0.01440
35	OHIO	3157000.0 2.44000	2081000.0 8.55000	684200.0 7.38000	838700.0 5.06000	14370000.0 16.30000
36	OKLAHOMA	2317000.0 1.79000	69170.0 0.28400	116500.0 1.26000	241100.0 1.45000	99030.0 0.11200
37	OREGON	2896000.0 2.24000	93250.0 0.38300	46610.0 0.50300	155100.0 0.93500	182900.0 0.20800
38	PENNSYLVANIA	3267000.0 2.52000	2158000.0 8.86000	674500.0 7.28000	902200.0 5.44000	17940000.0 20.40000
39	RHODE ISLAND	85960.0 0.06640	55420.0 0.22800	15770.0 0.17000	73060.0 0.44100	10240.0 0.01160
40	S CAROLINA	1160000.0 0.89600	310600.0 1.28000	109900.0 1.19000	176100.0 1.06000	430200.0 0.48800
41	S DAKOTA	2787000.0 2.15000	38730.0 0.15900	12060.0 0.13000	35780.0 0.21600	5705.0 0.00647
42	TENNESSEE	1763000.0 1.36000	882300.0 3.62000	289600.0 3.12000	258200.0 1.56000	222600.0 0.25300
43	TEXAS	9279000.0 7.17000	937500.0 3.85000	785800.0 8.48000	2184000.0 13.20000	1913000.0 2.17000
44	UTAH	2570000.0 1.98000	320100.0 1.31000	85200.0 0.91900	69930.0 0.42200	862900.0 0.97900
45	VERMONT	291300.0 0.22500	17640.0 0.07240	5694.0 0.06140	21100.0 0.12700	6071.0 0.00689
46	VIRGINIA	1539000.0 1.19000	433000.0 1.78000	148000.0 1.60000	270800.0 1.63000	179100.0 0.20300
47	WASHINGTON	2266000.0 1.75000	401300.0 1.65000	97230.0 1.05000	259200.0 1.56000	302000.0 0.34300
48	W VIRGINIA	1328000.0 1.03000	1122000.0 4.61000	337800.0 3.64000	162300.0 0.97900	2092000.0 2.37000
49	WISCONSIN	2127000.0 1.64000	601000.0 2.47000	186300.0 2.01000	280600.0 1.69000	104400.0 0.11800
50	WYOMING	2809000.0 2.17000	243300.0 0.99900	74540.0 0.80400	97100.0 0.58600	9158.0 0.01040
	US TOTALS	129500000.0	24350000.0	9269000.0	16580000.0	88130000.0

Table 32. NATIONAL LISTING OF CRITERIA EMISSIONS FROM TEXTILE MANUFACTURING SOURCES

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART ----	SO2 ---	NOX ---	HC --	CO --	C -
BREAKING AND SCUTCHING FLAX FIBRES	21.4 0.06170 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARBONIZING WOOL FIBRES	--	--	--	--	--	2
CARDING ASBESTOS FIBRES	27.5 0.07940 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARDING OF COTTON FIBRES	1408.0 4.07000 0.00103	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARDING WOOL FIBRES	1793.0 5.18000 0.00132	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING COTTON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00064 0.00001	0.0 0.00000 0.00000	2
CARPET BACKING - COTTON	0.7 0.00196 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET BACKING - FLAX	1.8 0.00514 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.0 0.00072 0.00001	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.8 0.00131 0.00001	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00640 0.00005	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING WOOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12.9 0.00910 0.00007	0.0 0.00000 0.00000	2

Table 32 (continued).

SOURCE -----	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART ----	SO2 ---	NOX ---	HC --	CO --	C -
CARPET HACKING SYNTHETIC POLYMERS	62.9 0.18200 0.00005	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	271.2 0.19200 0.00149	0.0 0.00000 0.00000	2
COMBING ASBESTOS FIBRES	27.5 0.07940 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMBING OF COTTON FIBRES	172.3 0.49800 0.00013	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMBING FLAX FIBRES	3.6 0.01030 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMRING WOOL FIBRES	1403.0 4.06000 0.00103	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	5071.0 14.70000 0.00372	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	5.3 0.01540 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	135.1 0.39000 0.00010	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4614.0 3.26000 0.02540	0.0 0.00000 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.1 0.00000 0.00000	0.0 0.00000 0.00000	2

Table 32 (continued).

DYEING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.7 0.00047 0.00000	0.0 0.00000 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00188 0.00001	0.0 0.00000 0.00000	2
DYEING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00003 0.00000	0.0 0.00000 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00025 0.00000	0.0 0.00000 0.00000	2
DYEING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00031 0.00000	0.0 0.00000 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3842.0 2.72000 0.02120	0.0 0.00000 0.00000	2
FELTING WOOL FABRICS	0.2 0.00049 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
FINISHING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	296.4 0.21000 0.00163	0.0 0.00000 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	43.2 0.03060 0.00024	0.0 0.00000 0.00000	2
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	564.4 0.39900 0.00311	0.0 0.00000 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2258.0 1.60000 0.01240	0.0 0.00000 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	37.7 0.02660 0.00021	0.0 0.00000 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	305.9 0.21600 0.00169	0.0 0.00000 0.00000	2

Table 32 (continued).

FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	59.5 0.04210 0.00033	0.0 2 0.00000 0.00000
GILLING WOOL FIBRES	59.3 0.17200 0.00004	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	13.7 0.03970 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
MANUFACTURE OF COTTON FABRICS	1075.0 3.11000 0.00079	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
MANUFACTURE OF LINEN CLOTH	1.8 0.00514 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
MANUFACTURE AND PROCESSING OF ROPE	46.7 0.13500 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
MANUFACTURE OF WOOL CLOTH	22.1 0.06380 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
PREPARATION OF ASBESTOS FIBRES	37.8 0.10900 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
PREPARATION OF COTTON FIBRES	20280.0 58.60000 0.01490	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 2 0.00000 0.00000
PRINTING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	74100.0 52.40000 0.40800	0.0 2 0.00000 0.00000
PRINTING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	595.8 0.42100 0.00328	0.0 2 0.00000 0.00000
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7779.0 5.50000 0.04290	0.0 2 0.00000 0.00000
PRINTING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31120.0 22.00000 0.17100	0.0 2 0.00000 0.00000

Table 32 (continued).

PRINTING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	519.1 0.36700 0.00286	0.0 0.00000 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5133.0 3.63000 0.02830	0.0 0.00000 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9837.0 6.96000 0.05420	0.0 0.00000 0.00000	2
SCOURING WOOL FIBRES	--	--	--	--	--	2
SINGEING COTTON FABRICS	62.8 0.18200 0.00005	31.4 99.90000 0.00005	18.0 99.90000 0.00008	26.9 0.01900 0.00015	9.0 99.90000 0.00001	2
SINGEING LINEN FABRICS	0.1 0.00026 0.00000	0.0 0.14100 0.00000	0.0 0.14100 0.00000	0.0 0.00003 0.00000	0.0 0.14100 0.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	65.2 0.18900 0.00005	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING NATURAL POLYMER FIBRES	34.9 0.10100 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING RAYON FIBRE	139.4 0.40300 0.00010	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING SYNTHETIC POLYMERS	2621.0 7.58000 0.00192	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
TOTALS FOR TEXTILES	34600.0	31.5	18.0	141400.0	9.0	
TOTALS FOR ALL U. S. SOURCES	136200000.0	64740000.0	22360000.0	18150000.0	97340000.0	

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particulates from the source "Breaking and Scutching Flax Fibers" represents 0.00002% of the total national particulate emissions.

Approximately 81% of particulates from textile operations are caused by cotton handling activities (carding, combing, preparation, and fabric manufacturing). Particulates from all textile operations account for 0.025% of the national total. Approximately 75% of the mass hydrocarbon loads are generated by the printing of cotton and rayon. Textile hydrocarbon emissions comprise 0.0078% of the national total. Singeing cotton generates the nitrogen oxides, sulfur oxides, and carbon monoxide emissions from textile processes. Pollutants from this operation represent <<0.001% of the national mass emissions.

D. PRIORITIZATION

Preliminary prioritizations were compiled with respect to the source types and SIC Codes shown earlier. The methodology used to generate impact factors for the prioritizations of these location sensitive sources is explained in Reference 4. As previously stated, a source type listing, shown in Table 33, was first used to represent only that data available in the literature from which estimates could be made. The SIC Code listing developed subsequently was found to provide a more comprehensive, logical, and organized basis for prioritizing sources within textile manufacturing. The source types were included under the appropriate SIC Codes shown in Table 34 to obtain the present SIC prioritization (Table 35). Any further investigations of textile manufacturing sources should use SIC Codes as the basis for defining source type.

Table 33. PRIORITIZATION OF TEXTILE MANUFACTURING
SOURCES WITH RESPECT TO SOURCE TYPE

SOURCE TYPE -----	IMPACT FACTOR -----	UL --	CALC ----
PREPARATION OF COTTON FIBRES	90,000,000	C	2
DRAWING AND SPINNING COTTON FIBRES	20,000,000	C	2
PRINTING COTTON FABRICS	10,000,000	C	2
MANUFACTURE OF COTTON FABRICS	4,000,000	C	2
CARDING OF COTTON FIBRES	2,000,000	C	2
PRINTING SYNTHETIC POLYMER FABRICS	2,000,000	C	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	800,000	C	2
DYEING SYNTHETIC POLYMER FABRICS	700,000	C	2
PRINTING RAYON FABRICS	700,000	C	2
DYEING COTTON FABRICS	700,000	C	2
PREPARATION OF ASBESTOS FIBRES	400,000	C	2
PRINTING WOOL FABRICS	400,000	C	2
MANUFACTURE AND PROCESSING OF ROPE	400,000	C	2
COMBING OF COTTON FIBRES	300,000	C	2
CARDING ASBESTOS FIBRES	300,000	C	2
COMBING ASBESTOS FIBRES	300,000	C	2
PRINTING NATURAL POLYMER FABRICS	200,000	C	2
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	200,000	C	2
PRINTING SILK FABRICS	100,000	C	2
BREAKING AND SCUTCHING FLAX FIBRES	100,000	C	2
FINISHING RAYON FABRICS	50,000	C	2
PRINTING LINEN FABRICS	50,000	C	2
FINISHING WOOL FABRICS	30,000	C	2
SPINNING SYNTHETIC POLYMERS	30,000	C	2
DRAWING AND SPINNING FLAX FIBRES	30,000	C	2
FINISHING COTTON FABRICS	20,000	C	2
COMBING FLAX FIBRES	20,000	C	2
FINISHING NATURAL POLYMER FABRICS	10,000	C	2
FINISHING SYNTHETIC POLYMER FABRICS	10,000	C	2
CARDING WOOL FIBRES	10,000	C	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	10,000	C	2
MANUFACTURE OF LINEN CLOTH	9,000	C	2
CARPET BACKING - FLAX	9,000	C	2
CARBONIZING WOOL FIBRES	8,000	D	2
FINISHING SILK FABRICS	8,000	C	2
COMBING WOOL FIBRES	8,000	C	2
FINISHING LINEN FABRICS	3,000	C	2
CARPET BACKING - COTTON	3,000	C	2
SINGEING COTTON FABRICS	1,000	C	2
DRAWING AND SPINNING WOOL FIBRES	1,000	C	2
CARPET DYEING AND DRYING WOOL	700	C	2
SPINNING RAYON FIBRE	500	C	2
GILLING WOOL FIBRES	300	C	2
MANUFACTURE OF WOOL CLOTH	300	C	2
CARPET DYEING AND DRYING RAYON FABRICS	300	C	2
CARPET BACKING SYNTHETIC POLYMERS	200	C	2
SCOURING WOOL FIBRES	200	D	2
SPINNING NATURAL POLYMER FIBRES	100	C	2
CARPET DYEING AND DRYING FLAX	80	C	2
DYEING RAYON FABRICS	60	C	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	60	C	2
CARPET DYEING AND DRYING COTTON	40	C	2
DYEING WOOL FABRICS	40	C	2
DYEING AND DRYING WOOL FIBRE STOCK	30	C	2
DYEING NATURAL POLYMER FABRICS	20	C	2
DYEING SILK FABRICS	9	C	2
DYEING LINEN FABRICS	4	C	2
SINGEING LINEN FABRICS	3	C	2
FELTING WOOL FABRICS	3	C	2

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Table 34. IMPACT FACTORS FOR TEXTILE MANUFACTURING SOURCES
BY SIC CODE

Source	Impact factor
SIC Code 221, Cotton Weaving Mills	
1. Printing cotton fabrics	10,000,000
2. Manufacture of cotton fabrics	4,000,000
3. Dyeing cotton fabrics	700,000
4. Finishing cotton fabrics	20,000
5. Singeing cotton fabrics	1,000
SIC Code 222, Man-Made Fiber and Silk Weaving Mills	
1. Printing synthetic polymer fabrics	2,000,000
2. Dyeing synthetic polymer fabrics	700,000
3. Printing rayon fabrics	700,000
4. Printing natural polymer fabrics	200,000
5. Printing silk fabrics	100,000
6. Finishing rayon fabrics	50,000
7. Finishing natural polymer fabrics	10,000
8. Finishing synthetic polymer fabrics	10,000
9. Finishing silk fabrics	8,000
10. Dyeing rayon fabrics	60
11. Dyeing natural polymer fabrics	20
12. Dyeing silk fabrics	9
SIC Code 223, Wool Weaving and Finishing Mills	
1. Printing wool fabrics	400,000
2. Finishing wool fabrics	30,000
3. Dyeing wool fabrics	40

Table 34 (continued). IMPACT FACTORS FOR TEXTILE
MANUFACTURING SOURCES BY SIC CODE

Source	Impact factor
SIC Code 2261, Cotton Finishing Plants	
1. Printing cotton fabrics	10,000,000
2. Dyeing cotton fabrics	700,000
3. Finishing cotton fabrics	20,000
4. Singeing cotton fabrics	1,000
SIC Code 2262, Man-Made Fiber and Silk Finishing Plants	
1. Printing synthetic polymer fabrics	2,000,000
2. Dyeing synthetic polymer fabrics	700,000
3. Printing rayon fabrics	700,000
4. Printing natural polymer fabrics	200,000
5. Printing silk fabrics	100,000
6. Finishing rayon fabrics	50,000
7. Finishing natural polymer fabrics	10,000
8. Finishing synthetic polymer fabrics	10,000
9. Finishing silk fabrics	8,000
10. Dyeing rayon fabrics	60
11. Dyeing natural polymer fabrics	20
12. Dyeing silk fabrics	9
SIC Code 227, Floor Covering Mills	
1. Carpet dyeing and drying synthetic polymers	10,000
2. Carpet backing-flax	9,000
3. Carpet backing-cotton	3,000
4. Carpet dyeing and drying wool	700
5. Carpet dyeing and drying rayon fabrics	300
6. Carpet backing synthetic polymers	200
7. Carpet dyeing and drying flax	80
8. Carpet dyeing and drying natural polymer fabrics	60
9. Carpet dyeing and drying cotton	40

Table 34 (continued). IMPACT FACTORS FOR TEXTILE
MANUFACTURING SOURCES BY SIC CODE

Source	Impact factor
SIC Code 2281, Yarn Mills Except Wool	
1. Preparation of cotton fibers	90,000,000
2. Drawing and spinning cotton fibers	20,000,000
3. Carding of cotton fibers	2,000,000
4. Combing of cotton fibers	300,000
5. Spinning synthetic polymers	30,000
6. Spinning rayon fiber	500
7. Spinning natural polymer fibers	100
SIC Code 2283, Wool Yarn Mills	
1. Carbonizing wool fibers	8,000
2. Carding wool fibers	10,000
3. Combing wool fibers	8,000
4. Drawing and spinning wool fibers	1,000
5. Gilling wool fiber	300
6. Manufacture of wool cloth	300
7. Scouring wool fibers	200
8. Dyeing and drying wool fiber stock	30
SIC Code 2291, Felt Goods Except Woven Felts and Hats	
1. Felting wool fabrics	3
SIC Code 2298, Cordage and Twine	
1. Manufacture and processing of rope	400,000
SIC Code 2299, Miscellaneous Textile Goods	
1. Printing linen fabrics	50,000
2. Breaking and scutching flax fibers	100,000
3. Drawing and spinning flax fibers	30,000

Table 34 (continued). IMPACT FACTORS FOR TEXTILE
MANUFACTURING SOURCES BY SIC CODE

Source	Impact factor
SIC Code 2299 (continued)	
4. Combing flax fibers	20,000
5. Manufacture of linen cloth	9,000
6. Finishing linen fabrics	3,000
7. Dyeing linen fabrics	4
8. Singeing linen fabrics	3
Other Sources	
1. Spinning asbestos fibers - twisting and winding	800,000
2. Preparation of asbestos fibers	400,000
3. Carding asbestos fibers	300,000
4. Combing asbestos fibers	300,000
5. Manufacture of asbestos products - weaving	200,000

Table 35. PRIORITIZATION OF TEXTILE MANUFACTURING
SOURCES WITH RESPECT TO SIC CODE

SIC code	Title	Impact factor
2281	Yarn Mills Excluding Wool	1.1×10^8
221	Cotton Weaving Mills	1.5×10^7
2261	Cotton Finishing Plants	1.1×10^7
2262	Man-Made Fiber and Silk Finishing Plants	3.8×10^6
222	Man-Made Fiber and Silk Weaving Mills	3.8×10^6
-	Asbestos Sources	2.0×10^6
223	Wool Weaving and Finishing Mills	4.3×10^5
2298	Cordage and Twine	4.0×10^5
2299	Miscellaneous Textile Goods, N.E.C.	2.1×10^5
2283	Wool Yarn Mills	2.7×10^4
227	Floor Covering Mills	2.2×10^4
2291	Felt Goods Excluding Woven Hats	3
225	Knitting Mills	-
2269	Finishing Plants, N.E.C.	-
2282	Throwing and Winding Mills	-
2284	Thread Mills	-
2292	Lace Goods	-
2293	Paddings and Fillings	-
2294	Processing Waste	-
2295	Coated Fabrics Not Rubberized	-
2296	Tire Cord and Fabrics	-
2297	Nonwoven Fabrics	-
2241	Narrow Fabric Mills	-

Asbestos emitting sources, which are not part of Major Group 22, are contained in the prioritization listing because of the significance of this mineral fiber in the environment.

Cotton textiles represent the top five source types having the greatest potential environmental impact as shown in Table 33. Four of these source types are concerned with the handling of cotton. These operations occur at yarn mills, SIC 2281 (Table 34), and at cotton weaving mills, SIC 221 (Table 34), and account for the top ranking of these two industries in the prioritization listing by SIC Code shown in Table 35. The other source type with an impact factor in the top five in Table 33 is the printing of cotton fabrics. This operation occurs in SIC 221, cotton weaving mills, and in SIC 2261, cotton finishing plants. These two industries are ranked second and third in the SIC Code prioritization listing in Table 35.

SECTION IV

GLOSSARY

AGEING - Process in which fabric is allowed to dry prior to washing.

AMMONIATING - Process in which yarn or fabric is passed through a weak solution of ammonia then through hot water as it is stretched, thus increasing the strength, luster, dimensional stability, and affinity for dyes.

BLEACHING - Process in which all the natural color is removed from yarns and fabric.

BLENDING - Combination of different types of fibers in formation of blended fibers, or mixing together parts of several bales of cotton resulting in greater uniformity.

BRAIDING - A form of fabric construction that is made by interfacing three or more strands of yarn so that each strand passes over and under one or more of the others.

BRUSHING - Process which removes loose, short-cut fibers which have dropped into the nap, and lays the nap in one direction.

BURLING - Process in which snarls, snubs, straws, etc., are removed from the warp threads and the filling threads.

CARBONIZING - The process whereby vegetable matter is chemically removed from wool by means of acids or salts.

CARDING - The initial process used in disentangling and combing out fibers of wool, flax, etc., preparatory to spinning.

COATING - Any finish applied to a tufted carpet or rug to create certain desirable properties.

COMBING - An operation, in addition to carding, in which fibers are straightened and arranged with a high degree of parallelism by the use of fine-tooth combs.

CRABBING - An operation in which fabric is stretched or loosened where necessary and set such that there is no strain on any portion of the fabric. The cloth passes over rollers into hot water or steam, then into cold water, after which it is pressed.

CRIMPING - Process in which straight fibers are made wavy.

CUTTING - Operation in which filament fibers are sheared into staple fiber lengths.

DAMPENING - A process by which goods are wetted. Dampening is one of three operations used in cold-water shrinking.

DESIZING - An operation in which the size is dissolved from woven fabric. (See Slashing)

DRAWING - An operation in which slivers of fibers are doubled and redoubled. The process draws, twists, and winds the stock.

DYEING - A process in which a fiber, yarn, or fabric is impregnated with a dyestuff.

FABRIC - A cloth made by weaving, knitting, or felting fibers.

FELTING - Process by which fibers are pressed, rather than woven, into a compact fabric.

FIBER - A fine threadlike piece, as of cotton, jute or asbestos.

FILAMENT - A single element of a textile fiber (as silk), or mechanically produced fiber (as rayon or nylon).

FRAMING - Stretching of fabrics on a rack structure to apply finishes or treatments, especially tenter framing which dries and evens the fabric width.

FULLING - An important operation in the finishing of wool fabrics which actually operates as a preshrinking process for wool. The fibers are cleaned, scoured, and condensed by a combination of moisture, heat, soap, and pressure.

GARNETTING - A picking and shredding operation by which re-processed and reused wool fibers are obtained by separately reducing the unused and used materials to a fibrous mass.

GILLING - Operation in which yarn is run through comb-like spikes to effect parallelization of the fibers.

GRAY GOODS - A term used to denote fabric which is discolored due to exposure.

GREY GOODS - A term also known as greige goods, used to denote any unfinished fabric as it comes from the loom.

HACKLING - A simple combing process whereby flax fibers are straightened and long staple is separated from the short staple.

KNITTING - Operation by which fabric is formed by looping a continuous yarn.

MERCERIZING - A process in which cotton yarns or fabric is treated with caustic alkali under tension, thus increasing strength, luster, and affinity for dyes.

NEEDLING - The insertion of barbed needles into fiber webs in order to entangle the fibers.

OILING - Treatment of fiber with one of various oils, including animal, vegetable, and mineral, or a blend of these to keep it from becoming brittle and to lubricate it for the spinning operation.

OPENING - Process in which bales of cotton move through an opening machine where the compressed masses of raw fiber are loosened and exposed to the atmosphere.

PICKING - Inserting of filling yarn by means of casting a shuttle from one side of the loom to the other.

PRINTING - Process in which a pattern or design is imprinted on a fabric in one or more colors by using dyes in a paste form or some related means.

ROVING - A strand of loosely assembled fibers, wool, cotton, etc., preparatory to spinning.

SCOURING - A step preparatory to manufacturing in which goods are thoroughly washed in an alkaline solution to remove impurities.

SCUTCHING - Removal of small pieces of bark, called shives, thus releasing flax fiber from the stalk.

SHEARING - An operation in which fabrics are processed through rotating spiral blades to promote an attractive smooth surface to the cloth.

SHORT-STAPLE - A particular length, degree, and fineness of cotton, wool, flax, and other natural fibers.

SINGEING - Rapidly passing gray goods over gas flames to burn off lint and threads as well as all fuzz and fiber ends.

SLASHING - Also known as sizing - an operation in which yarn is coated (for example with starch) to prevent chafing or breaking during the weaving process.

SLIVER - A product of the cotton process, a sliver is a continuous, untwisted strand of cotton fibers.

SOFTENING - Process of applying a finish to the fibers or yarn to improve the "hand" of the fabric.

SORTING - The arranging of wool fleece by color into various piles for processing.

SPINNING - Technique for changing fibrous substances into yarn or thread.

SPOOLING - Operation in which yarn is wound on a spool or cone for use in weaving.

STIFFENING - The application of pressure and steam to saturated batts of wool to harden the fibers through increased interlocking.

TEXTURIZING - The operations which change the surface or shape and texture of filament fibers.

THROWING - Process in which reeled silk is transferred into silk yarn. Throwing is analogous to the spinning process that manufactures cotton, linen, or wool fibers into yarn.

TOW - Short-staple fibers straightened and formed into a sliver for further processing.

TUFTING - Process in which yarn is punched through a ground fabric (backing), used in rug and carpet production.

TWISTING - Combining two or more strands or threads by winding together.

WARPING - Operation in which yarns are placed on a large rack or frame and immersed in a solution.

WASHING - Detergent operation which removes dirt and excess dyes and printing materials from fabric.

WEAVING - Interlacing threads, yarns, strips, fibrous material, etc., in order to form a fabric or texture.

WEB BONDING - Process that applies adhesive to fabric or yarns causing a permanent bond between materials.

WEB FORMATION - The creation of an interlaced network of fibers (including waste) for bonding.

WINDING - Wrapping yarn or thread onto spools, bobbins, or reels.

YARN - Fibers drawn, twisted, and spun together to form the basis to fabrics used in knitting and weaving.

SECTION V
CONVERSION FACTORS¹³

<u>To convert from</u>	<u>to</u>	<u>Multiply by</u>
kilogram (kg)	pound-mass (lb mass avoirdupois)	2.205
kilogram (kg)	ton (short, 2,000 lb mass)	1.102×10^{-3}
kilogram (kg)	metric ton	1.000×10^{-3}
meter (m)	yard	1.094
metric ton	pound	2.205×10^{-3}

<u>Prefix</u>	<u>Symbol</u>	<u>Multiplication factor</u>	<u>Example</u>
kilo	k	10^3	1 kg = 10^3 grams

¹³Metric Practice Guide. American Society for Testing and Materials. Philadelphia. ASTM Designation: E-380-74. November 1974. 35 p.

SECTION VI

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TECHNICAL REPORT DATA (Please read Instructions on the reverse before completing)			
1. REPORT NO EPA-600/2-77-107h		2	
4 TITLE AND SUBTITLE SOURCE ASSESSMENT: Overview and Prioritization of Emissions from Textile Manufacturing		3 RECIPIENT'S ACCESSION NO.	
7. AUTHOR(S) R. A. Wachter, S.R. Archer, and T.R. Blackwood		5. REPORT DATE September 1977	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Monsanto Research Corporation 1515 Nicholas Road Dayton, Ohio 45407		6. PERFORMING ORGANIZATION CODE	
12. SPONSORING AGENCY NAME AND ADDRESS EPA, Office of Research and Development Industrial Environmental Research Laboratory Research Triangle Park, NC 27711		8. PERFORMING ORGANIZATION REPORT NO. MRC-DA-702	
15. SUPPLEMENTARY NOTES IERL-RTP task officer for this report is Max Samfield, Mail Drop 62, 919/541-2547. Earlier reports in this series are also in the EPA-600/2-76-032 series.		10 PROGRAM ELEMENT NO LAB015; ROAP 21AXM-071	
16. ABSTRACT The report gives an overview of air pollution emission levels and a ranking of the public health hazard potential of textile manufacturing operations. The textile industry was defined and categorized by Bureau of the Census Standard Industrial Classification (SIC) Codes. Flow charts of production were developed along with production rates per SIC code. Sources of emissions were defined and emission quantities computed on the basis of an extensive literature survey and engineering analysis. Mass emissions from textile sources were determined on a state-by-state and national basis for criteria pollutants (carbon monoxide, particulate matter, nitrogen oxides, hydrocarbons, and sulfur dioxide). The health hazard potential of each source was quantified through impact factors based on downwind exposure to concentrations of pollutants in relation to hazard factors for those pollutants.		11. CONTRACT/GRANT NO. 68-02-1874, Task 2	
17. KEY WORDS AND DOCUMENT ANALYSIS		13 TYPE OF REPORT AND PERIOD COVERED Task Final; 2/76-1/77	
a. DESCRIPTORS		14. SPONSORING AGENCY CODE EPA/600/13	
b. IDENTIFIERS/OPEN ENDED TERMS		15. SUPPLEMENTARY NOTES	
c. COSATI Field/Group		16. ABSTRACT	
Air Pollution	Toxicity	Air Pollution Control	13B 06T
Textile Industry	Carbon Monoxide	Stationary Sources	11E 07B
Textile Processes	Dust	Source Assessment	13H 11G
Emission	Nitrogen Oxides	Health Hazards	
Ranking	Hydrocarbons	Particulate	12B 07C
Public Health	Sulfur Dioxide		06E
18. DISTRIBUTION STATEMENT Unlimited		19. SECURITY CLASS (This Report) Unclassified	
		20. SECURITY CLASS (This page) Unclassified	
		21 NO OF PAGES 139	
		22 PRICE	