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CANADIAN PRINTING INDUSTRIES ASSOCIATION

STUDY OF THE PRINTING INDUSTRY

IN UPSTATE NEW YORK AND

WESTERN PENNSYLVANIA

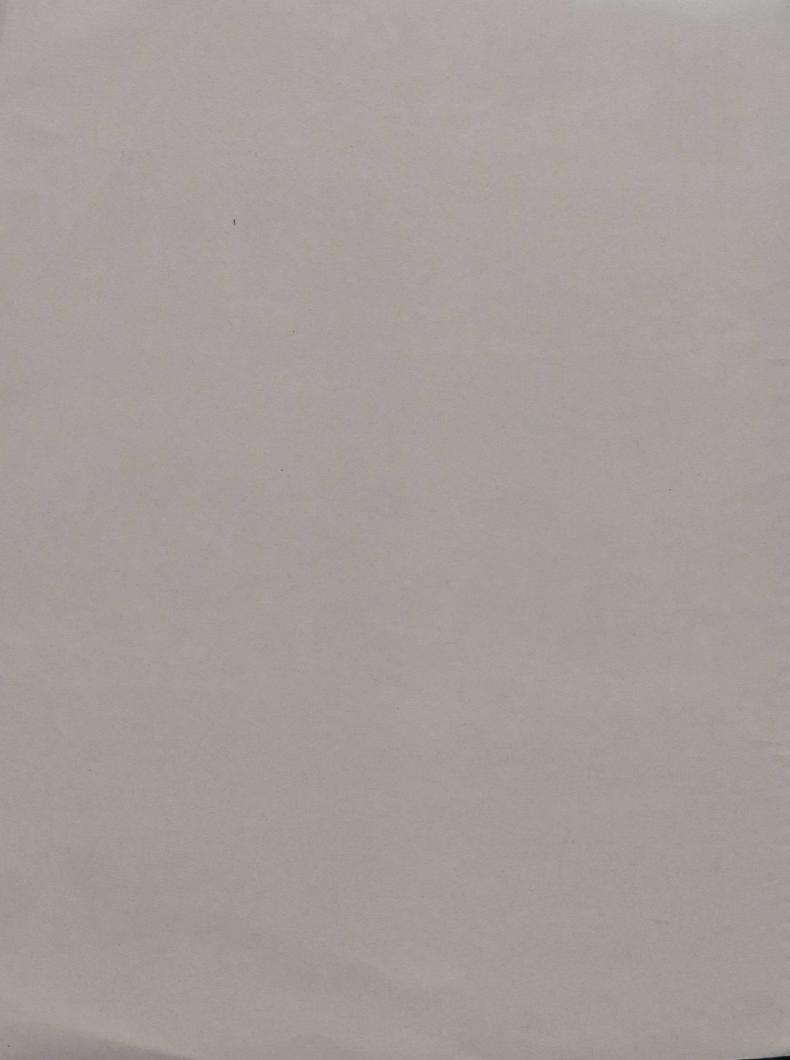
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May 13, 1994

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Dept. of External Attails Min. des Affaires extérieures

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EXECUTIVE SUMMARY

This report was commissioned for the Canadian Printing Industry Association (CPIA) by the Canadian Consulate, Consular office in Buffalo, New York. The objectives were to provide an information base for Canadian printing firms that wish to pursue an export-based growth strategy, identify potential barriers, and supply information that will assist such growth into the U.S. marketplace.

The area of interest for the study includes all of upstate New York and western Pennsylvania. The economy of the area is primarily manufacturing based. Despite having suffered large losses of business and employment during the recent recession, the area remains one of the major industrial regions of the United States. The printing and publishing industry is the second largest group of the area's manufacturing sector. There are approximately 1,400 printing firms in the area, and most of the medium to large firms are concentrated in or near larger towns and cities.

Comparing the Canadian and U.S. printing industries on the basis of national averages indicates that growth in manufacturing productivity, labor productivity, and unit labor costs have been quite similar historically. However, the drop in value of the Canadian dollar with respect to the U.S. dollar has deteriorated the competitiveness of U.S. firms. Furthermore, the potential for rising costs for materials, environmental regulations, technology changes and employee training are expected to further erode U.S. competitiveness.

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The projected growth in revenues for the printing industry in the United States is predicted to be more than 2% during 1994, rising to \$177 billion (US). It is possible that with the current exchange rate and the amount of growth in the U.S. market, Canadians printers will be able to make considerable in-roads into U.S. markets.

Executives from Canadian printing firms that are currently exporting to the United States indicated that in order to successfully export to the U.S. market, a Canadian firm must find and be able to exploit a specific market niche. This can be accomplished through good market research, a buyout, and/or a joint venture. It was also noted that Canadian printers should make it appear to potential U.S. customers that they are located just next door. An easy and cost effective way to achieve this is through the use of an "800" number.

Print buyers in the United States were surveyed to determine if there is a "Buy American" bias that would hinder the chances of exporting for a Canadian printer. It was Baga, or extensit Allace basis date Allaces extensioned

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determined that the Canadian perception of the "Buy American" bias is exaggerated. Most of the U.S. print buyers who were surveyed ranked the importance of their material being printed in the United States as very low. The three most important criteria for the U.S. print buyers were product quality, service, and price/cost. Although approximately one third of those surveyed anticipated no problems in working with a Canadian printer, the most frequently mentioned problems were on-time delivery, distance, and border crossing problems. Exchange rates, tariffs, and regulations were not major issues to U.S. print buyers.

Issues concerning movement of business travellers between countries are addressed in the North American Free Trade Agreement (NAFTA). Four categories for temporary entry are business visitor, traders and investors, intracompany transferee, and professional. Tariffs are all but eliminated on printed goods entering the United States. Nontariff impediments are being eliminated with the Printed in Canada labelling being relaxed over a wider range of products.

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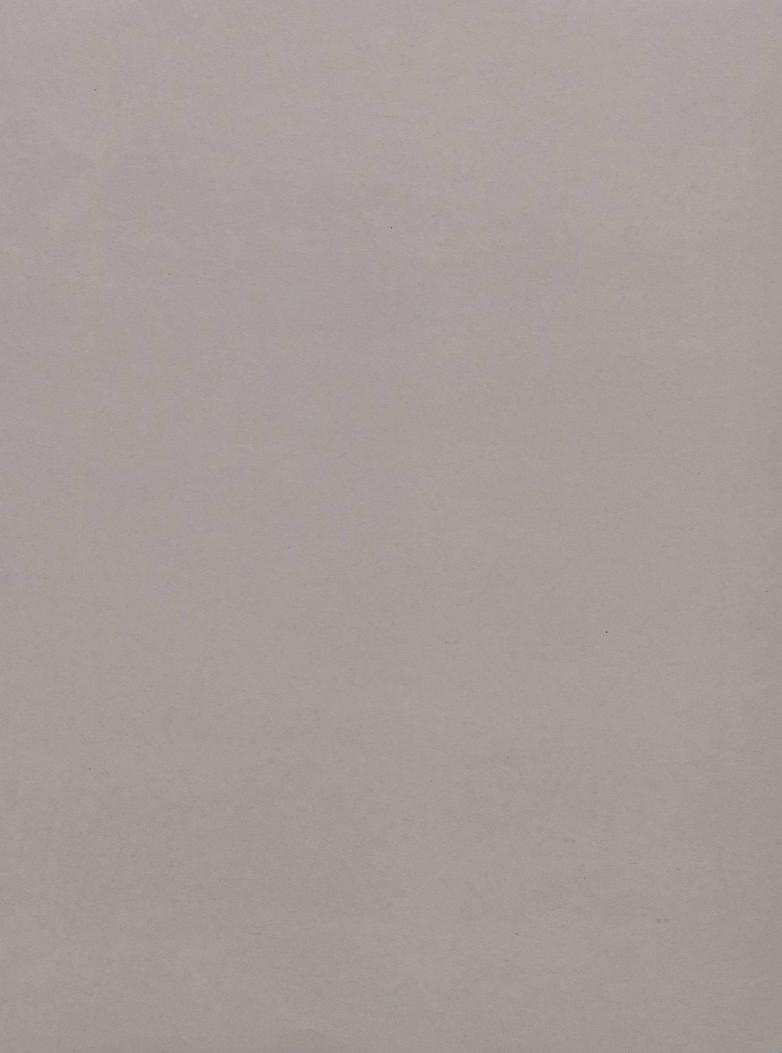
VOLUME I

Canadian-U.S. Business Consulting Service Clarkson University Potsdam, New York 13699 Tel: 315-268-7610 / FAX: 315-268-3810

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INTRODUCTION

In 1993, approximately \$344 million (US) of printed material (SIC 27) was exported by the United States into Canada, while Canada exported \$151 million (US) into the United States. Clearly the printing industry of both nations has an interest in international trade. In this regard, this report was commissioned on behalf of the Canadian Printing Industries Association (CPIA) by the Canadian Consulate, Consular office in Buffalo, New York. The objectives of the study are to provide an information basis for Canadian printing firms that wish to pursue an exportbased growth strategy, to identify potential trade barriers, and to supply information which will assist such growth into the U.S. marketplace.

The geographic area surveyed for this report consists of upstate New York and western Pennsylvania. In certain instances, the research fell outside of this geographic area. It was the decision of the Canadian-U.S. Business Consulting Service to include the information due to its relevance to the overall objectives.

This report consists of two volumes. The first volume is organized into 4 individual sections to facilitate its publication and dissemination by the CPIA. Each part is complete with its own objective, methodology and summary of results. Supporting material and data for the reports are included in the second volume that contains the Appendices. The research methods included reviewing literature from both government and private sources, interviews with both suppliers and purchasers of printed products and compilation of data from each of the sources.

The results and findings of the project are varied and cover many broad categories. However, in consideration of the scope of the study, the results and findings should be of great use to a variety of Canadian printers.

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Section 1 Industry Background

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Industry Background

I. Introduction

II. The Economies of Upstate New York and Western Pennsylvania

III. Comparing U.S. and Canadian Manufacturing Productivity

IV. General Information on the Printing Industry in the Area of Interest

V. Cost Comparison of Canadian and Upstate New York Printers

VI. Sources of Information

VII. Summary

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^{10.3.} Dept. Labor, Rorenz of Labor Statistics, Revealers Civilian Labor Porce summary, July and August, 1997.

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I. INTRODUCTION

The area of interest includes all of upper New York state and the Pittsburgh area of western Pennsylvania. Major population centers within these areas include Buffalo, Rochester, Syracuse, Watertown, Binghamton, Plattsburgh, and Pittsburgh. The commercial base is diverse, with industries varying from primary forestry and mining operations to manufacturing of a wide spectrum of products. In addition, a well-developed and mature infrastructure of highways, rail lines, and communications exists.

The overall objectives of this study are to provide the CPIA and its members with information for pursuing an export-based growth strategy. This section of the report examines the general state of the economy and the printing industry within the area of interest. To assist Canadian companies in assessing the potential of entering the U.S. market, certain costs of U.S.-based businesses and printers are outlined and compared with Canadian firms. In addition, further information useful to companies looking to enter the U.S. market is presented, consisting of sources of data regarding market background and news.

II. THE ECONOMIES OF UPSTATE NEW YORK AND WESTERN PENNSYLVANIA

New York state borders the provinces of Ontario and Quebec, and is accessible from Canada by six major border crossing ports. These ports include Fort Erie/Buffalo, Niagara, Hill Island crossing, Prescott/Ogdensburg, Cornwall/Massena and Champlain, New York. Other lesser border crossings exist; however, the above six represent the principal commercial ports. Pennsylvania has no direct border contact with Canada, but adjoins New York along its southern boundary.

The area of interest for study consists of thirty-five (35) counties in upstate New York and five (5) counties in western Pennsylvania around Pittsburgh. These counties are listed in Tables 1 and 2 and maps displaying the locations of each of the counties can be found in Appendix A. Additional data¹ contained in the tables are statistics on the labor force for both countries, and the size and classification of the associated printing industry². The purpose of

¹U.S. Dept. Labor, Bureau of Labor Statistics, Resident Civilian Labor Force summary, July and August, 1993

² U.S. Bureau of the Census, County Business Patterns, New York, 1993

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examining labor statistics is to illustrate the relationship of economic welfare of any region with employment rates.

For the counties of upstate New York, the weighted average of unemployed civilian workers in 1993 was approximately 6.3%, while western Pennsylvania similarly reported 6.6%. At a time when national figures in the United States were 6.6%, the region may be seen to be faring well in comparison with the country as a whole.

Another significant factor regarding the area's economy is its comparative size with regard to the Unites States. New York's economy is second in size only to California's in terms of total employment and number of operating companies³. Pennsylvania is comparatively ranked fifth in these criteria among U.S. states.

Principally, New York and Pennsylvania have manufacturing-based economies. For example, in New York, the manufacturing sector in 1991 comprised of nearly 16% of the total employment and 18% of the total payroll. Also, when combined with the complementary business sectors of transportation and utilities, these three sectors employed 26% of the total work force and earned 30% of the total civilian payroll. Pennsylvania has similar statistics for the relative size of its manufacturing and complementary sectors. Within the manufacturing sector, the printing and publishing group is the second largest group, based on employment and payroll.

However, the recent recession has effected the general economy of the area. During the period of 1990 to 1991, New York faced a state-wide reduction in the total number of employed persons in the order of 270,000. The manufacturing sector has been particularly vulnerable, with employment losses of 88,000 during this period. Furthermore, this trend has not improved in recent times as reflected in the loss of approximately 90,000 jobs during the period of July to August, 1993.

With an end to the recession in the United States, the level of economic activity of the area of interest should increase. To monitor any improvements in the economy of the area, one can utilize data regularly published by both the federal and state governments such as in the annual <u>U.S. Industrial Outlook</u> (U.S. Department of Commerce), and the <u>Resident Civilian</u>

³ U.S. Dept of Commerce, Bureau of Statistics, ES87-1, Large Companies

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⁷ U.S. Dans of Commerces. Burgan of Statistics, ESS7-1. Large Commented

Labor Force Summary or the Monthly Labor Review (U.S. Department of Labor).

III. COMPARING U.S. AND CANADIAN MANUFACTURING SECTORS

In order to obtain a better understanding of the U.S. business environment for Canadian printers, several economic indicators for the two countries can be compared. Of particular interest are the rate of labor productivity growth, unit labor costs, and manufacturing productivity. The <u>Monthly Labor Review</u>, published by the U.S. Department of Labor, closely monitors these data for the United States, regularly releases these and other useful figures, and was the primary source of the following discussion.

During the period of 1991 to 1993, both Canada and the United States experienced labor productivity growth of approximately 4.3%. In addition, Canada and the United States have experienced little change in unit labor costs since 1991 with labor hourly compensation actually rising only 5% for each country. However, during that period, the Canadian dollar's exchange rate continuously declined by about 9% of its value relative to the U.S. dollar. Consequently, there has been a deterioration of the U.S. manufacturing competitiveness in terms of unit labor costs relative to Canada.

During 1992, unit labor costs in Canada decreased by 5.2% over U.S. costs. In fact, this relative decline in the unit labor costs for Canada has been ongoing and averaged 1.7% during the period of 1979 to 1992. With the recent further decline in the relative value of the Canadian dollar, there may well be a continuation of this trend, thus making Canadian manufacturing even more competitive to their U.S. counterparts.

IV. GENERAL INFORMATION ON THE PRINTING INDUSTRY

IN THE AREA OF INTEREST

For the purposes of this study, the classification of printing and publishing firms has been by the general SIC code of 27. The companies presented in Table 1 and Table 2 include newspapers and periodicals, book printing and publishing, commercial printing, business forms, bankbooks and bookbinding, and printing trade services. A more thorough subdivision by county is available in <u>County Business Patterns</u> (U.S. Department of Commerce). Data for the most populated counties in upstate New York and Pennsylvania are contained in Appendix B that include the types and numbers of the major types of printing firms within each county. Labor Force Summary or the Monthin Labor Review (U.S. Department or Labor).

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A

With approximately 970 printing companies in upstate New York and 460 in the Pittsburgh area, there is no obvious shortfall of printers within the area. The distribution of printing companies throughout the area is for the most part in proportion with the general population and work force. Overall, there is about one printing firm per 2,000 workers within each county unit. Even though there is no way of determining whether or not there may exist any particular market type or niche within which a Canadian printer could become successfully active, the tables do show a concentration of medium and large printing companies in areas of higher population densities.

As mentioned above, the economy of the area is primarily manufacturing based. The second largest group within the manufacturing sector is printing and publishing. Like the entire manufacturing sector, the printing industry in the region has been significantly affected by the recent recession. Over the 1990-91 period, more than 260 printing firms went out of business and nearly 4,000 printing jobs were eliminated. These figures suggest that a large number of the firms that shut down were in the medium size range. The primary cause of the downturn in the printing industry has been identified as the response to a slowdown in advertising expenditures, cuts in library and education materials, reduced demand from new and existing businesses, and reduced usage of newspapers and magazines.

However, with the end of the recession and the improving U.S. economy, the <u>U.S.</u> <u>Industrial Outlook 1994 - Printing and Publishing</u> states that "an improved economy, coupled with gains in advertising expenditures, should raise shipments of the U.S. printing and publishing industry (SIC 27) to U.S.\$177 billion in 1994, an increase of nearly 2% over 1993

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| and the second | 10. 2 31 | Labor | | | Printing | Industry | Data |
|----------------|----------|-------------|------------|---------------------------|------------|-----------|-----------|
| | | Information | | | | | |
| County | Labor | Employed | Unemployed | Operations | Classed by | Number of | Employees |
| | Force | | Rate | Total No.Of Operations | 1 to 9 | 10 to 49 | 50+ |
| County | ('000s) | (*000s) | (%) | | | | |
| Chautauqua | 63.9 | 59.7 | 6.6 | 22 | 13 | 6 | 3 |
| Niagara | 96.1 | 88.3 | 8.1 | 33 | 22 | 6 | 5 |
| Erie | 463.4 | 432.3 | 6.7 | 219 | 122 | 74 | 23 |
| Cattaraugus | 35.9 | 32.9 | 8.3 | 10 | 3 | 6 | 1 |
| Orleans | 19.2 | 17.8 | 7.2 | 6 | 2 | 2 | 2 |
| Genesee | 26.6 | 24.8 | 6.9 | 12 | 6 | 3 | 3 |
| Wyoming | 16.9 | 15.5 | 6.1 | 4 | 1 | 3 | 0 |
| Allegany | 18.8 | 17.3 | 8.1 | 11 | 8 | 3 | 0 |
| Monroe | 369.6 | 351.9 | 4.1 | 204 | 126 | 61 | 17 |
| Livingston | 31.2 | 29.8 | 4.5 | 14 | 7 | 3 | 4 |
| Wayne | 45.4 | 42.7 | 5.9 | 16 | 9 | 5 | 2 |
| Ontario | 49.5 | 47.3 | 4.4 | 15 | 8 | 3 | 4 |
| Steuben | 42.8 | 40.1 | 6.4 | 15 | 10 | 2 | 3 |
| Yates | 8.9 | 8.3 | 6.1 | 0 | 0 | 0 | 0 |
| Seneca | 12.6 | 11.6 | 8.0 | 7 | 3 | 4 | 0 |
| Schuyler | 8.6 | 8.1 | 6.7 | 0 | 0 | 0 | 0 |
| Chemung | 42.9 | 40.6 | 5.4 | 15 | 10 | 2 | 3 |
| Cayuga | 37.6 | 35.2 | 6.5 | 11 | 6 | 4 | 1 |
| Tompkins | 55.0 | 53.4 | 3.0 | 36 | 20 | 13 | 3 |
| Tioga | 24.2 | 22.5 | 7.0 | 0 | 0 | 0 | 0 |
| Jefferson | 46.5 | 42.4 | 4.1 | 16 | 10 | 5 | 1 |
| Oswego | 54.8 | 50.3 | 8.3 | 18 | 9 | 7 | 2 |
| Onondaga | 233.0 | 220.0 | 5.6 | 116 | 69 | 31 | 16 |
| Cortland | 23.7 | 22.0 | 7.0 | 12 | 8 | 3 | 1 |
| Broome | 96.6 | 89.4 | 7.5 | 47 | 28 | 13 | 6 |
| St. Lawrence | 46.6 | 42.8 | 8.1 | 10 | 7 | 3 | 0 |
| Lewis | 11.6 | 10.6 | 9.1 | 3 | 1 | 1 | 1 |
| Oneida | 111.8 | 105.4 | 5.8 | 45 | 29 | 8 | 8 |
| Madison | 33.6 | 31.8 | 5.4 | 10 | 8 | 2 | 0 |
| Chenango | 20.8 | 19.0 | 8.5 | 13 | 3 | 7 | 3 |
| Herkimer | 29.5 | 27.4 | 6.8 | 7 | 2 | 4 | 1 |
| Franklin | 22.2 | 20.8 | - 6.3 | 9 | 6 | 3 | 0 |
| Hamilton | 3.3 | 3.1 | - 5.1 | 0 | 0 | 0 | 0 |
| Clinton | 38.6 | 36.0 | 6.9 | 9 | 5 | 2 | 2 |
| Essex | 20.4 | 19.1 | 6.5 | 6 | 3 | 3 | 0 |
| Totals | 2262.1 | 2120.2 | 6.3 | 971 | 564 | 292 | 115 |

Table 1:Information on employment and labor during 1993, and the printing industry of
upstate New York for 1991.

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|----|--|--|--|--|
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Sable It Information on employment and lager during 1993, and the printing industry of upstate New York for 1991.

Table 2: Labor and printing industry statistics for western Pennsylvania during 1991. Unemployed rate for 1993 from the Monthly Labor Review, Jan. 1993. (Current county data not available, n/a)

| | Labor Information | | | Printing | Industry | Data |
|-----------------|----------------------|------------|---------------------------|------------|-----------|-----------|
| County | Employed | Unemployed | Operations | Classed by | Number of | Employees |
| county | electrine any r | Rate | Total No.Of Operations | 1 to 9 | 10 to 49 | 50+ |
| machi lizz beer | ('000s) | (%) | in the carries | | | |
| Allegheny | 647.8 | n/a | 324 | 208 | 88 | 28 |
| Armstrong | 16.1 | n/a | 9 | 7 | 1 | 1 |
| Beaver | 42.4 | n/a | 18 | 15 | 2 | 1 |
| Butler | 44.7 | n/a | 24 | 11 | 11 | 2 |
| Washington | 58.7 | n/a | 37 | 28 | 8 | 1 |
| Westmoreland | 105.4 | n/a | 51 | 32 | 12 | 7 |
| Totals | 915.1 | 6.6 | 463 | 301 | 122 | 40 |

in constant dollars." The <u>Industrial Outlook</u> continues to state that certain subdivisions within the industry will do exceptionally well. These subdivisions and their projected growth include; book publishing (8.5%), commercial printing (6.1%), greeting cards (9.0%), bankbooks and binders (5.5%), and platemaking services (5.9%).

It is interesting to note that the <u>Industrial Outlook</u> looks at the potential for exporting from and importing into the United States. In 1992, 32% of all U.S. printing exports were made to Canada and had a value of \$344 million (US). Canadian imports amounted to 34% of all imported printed material, but the value was only \$151 million (US). However, with the international competitiveness of the U.S. industry being eroded by the exchange rate, the <u>Industrial Outlook</u> noted that foreign printers have made in roads on the U.S. market. The trend is bound to continue.

In the longer term, the <u>Industrial Outlook</u> indicated that U.S. printers will have cost pressures which may make them less competitive. These pressures are expected to be due to stricter environmental standards, materials costs, technology advances and capital equipment upgrading. Furthermore, the cost of training employees in new printing technologies is anticipated to be significant.

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Table 2: Labor and printing industry statistics for western Pennsylvania during 1991, Unemployed rate for 1993 from the Monthly Labor Review, Jan. 1993. (Current county data not available, n'a)

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V. COST COMPARISON OF CANADIAN AND UPSTATE NEW YORK PRINTERS

With the volatility of foreign exchange markets, it is difficult to present an accurate comparison of costs between Canadian and U.S. printing firms. Depending upon the relative value of the two currencies, a direct measure of any two competing firms may well be obsolete the day after the comparison is completed. However, it is possible to examine the relative cost in a general way to determine any particular cost area where there is a noticeable variance. This approach has been followed by the Printing Industries of America ("PIA") and the results are presented in Table 3.

The purpose of the PIA study was to examine the distribution of costs that can be attributed to the value-added of a printing job. The objective of Table 3 was to identify any cost area(s) in which there could be an advantage for either the Canadian or U.S. firm. The type of firms illustrated in the table were sheet-fed offset printers with annual incomes in the range of \$3 million (US) to \$10 million (US). The jobs that were costed were mainly commercial advertising.

The results, as shown in Table 3, fail to identify any significant variances in the distribution of the costs between Canadian and U.S. printers. For the costs of operations, such as Factory Payroll and Factory Expenses, the two columns tracked costs in a near parallel fashion. Any differences worth noting occur in the areas of administrative and selling expenses. The costs of administration for the typical U.S. firm were approximately 40% greater than Canadian firms, but the reverse was the case for selling expenses. Overall, there were very similar distributions of the value-added costs of printing jobs.

For both the U.S. and Canadian printers, the single largest category of costs was direct labor. For U.S. commercial printers, labor costs and rates are annually reported in the <u>Statistical Abstracts of the United States</u>. Over the period 1980 to 1992, the national average for U.S. commercial printers labor rates for nonsupervisory workers have risen from \$7.85 (US) to \$11.94. As of November 1993, the average labor rate as reported in the <u>Monthly Labor</u> <u>Review</u> had risen to \$12.17. By monitoring U.S. labor rates, Canadian printing firms should be able to obtain an indication of the relative costs of general printing jobs with the information contained in Table 3 (and also taking into account the prevailing exchange rates).

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Table 3: Relative proportion of cost distribution between Canadian and U.S. printers, 1993.

| FACTORY PAYROLL | | | |
|---|------------------------|----------------|--|
| Salaries- Executive | 3.82 % | 2.84 % | |
| Direct Wages | 30.81 | 27.40 | |
| General Factory Salary and Wages | 1.47 | 6.09 | |
| Packing Shipping and Delivery Wages | 0.92 | 1.67 | |
| Payroll Taxes | 3.34 | 1.27 | |
| Employee Benefits | 4.95 | 3.99 | |
| TOTAL FACTORY PAYROLL | <u>45.31</u> % | <u>43.26</u> % | |
| FACTORY EXPENSES | | | |
| FIXED EXPENSES | 0.07 % | 0.37 % | |
| Depreciation - Real estate | 0.27 % | 6.59 | |
| Depreciation - Other | 6.95 | 0.73 | |
| Taxes - Real Estate | 0.61 | 0.73 | |
| Taxes - Other | 0.00 | 0.38 | |
| Insurance | 1.33 | 2.79 | |
| Building Rent | 1.80 2.23 | 1.91 | |
| Utilities | | 1.01 | |
| Equipment Rental | <u>0.55</u> 13.74 % | 13.86 % | |
| OTHED EIVED EVDENIEES | 13.74 % | 10.00 10 | |
| OTHER FIXED EXPENSES | 2.82 % | 2.49 % | |
| Factories Supplies and Expenses | 1.58 | 2.21 | |
| Packing, Shipping and Delivery | 1.50 | 2.21 | |
| Expenses Pensits and Maintenance | 2.44 | 2.16 | |
| Repairs and Maintenance Other Factory expenses | 1.23 | 2.63 | |
| outer a detory expenses | 8.07 % | 9.49 % | |
| TOTAL FACTORY EXPENSES | 21.81 % | 23.35 % | |
| ADMIN. EXPENSES | | | |
| Salaries - Executive | 5.41 % | 3.15 % | |
| Salaries - Office | 3.49 | 3.18 | |
| Payroll Taxes | 0.69 | 0.17 | |
| Employee Benefits | 1.20 | 0.68 | |
| Bad Debts | 0.80 | 1.38 | |
| Office Supplies and Expenses | 0.76 | 0.51 | |
| Professional Fees | 0.98 | 0.95 | |
| Taxes - Business | 0.11 | 0.39 | |
| Telephone Expenses | 0.72 | 0.70 | |
| Other Administrative Expenses | 2.85 | 1.88 | |
| TOTAL ADMINISTRATIVE EXPENSES | <u>17.01</u> % | <u>12.99</u> % | |
| | | | |
| SELLING EXPENSES | | 1.60 07 | |
| Salaries - Executive | 1.62 % | 1.60 % 9.67 | |
| Salaries and Commissions - Sales | 4.97 | 2.82 | |
| Salaries - Sales Office Clerical | 1.59 | 0.34 | |
| Payroll Taxes | 0.60 0.87 | 0.92 | |
| Employee Benefits Advertising | 0.87 | 0.76 | |
| Travel and Entertainment | 1.26 | 2.16 | |
| Other Selling Expenses | 0.52 | 1.04 | |
| TOTAL SELLING EXPENSES | <u>11.91</u> % | 19.31 | |
| GRAND TOTAL | 96.04 | % 98.91 % | |
| | | | |

VI. SOURCES OF INFORMATION

There are literally thousands of sources of information on the United States and its markets. Listed below and tabulated in Appendix D are certain selected information sources that may be utilized for gaining insights into the U.S. printing industry and markets.

The U.S. federal government and the individual state governments collect and publish data on population, business and industries, and domestic and foreign markets. Two major federal departments supplying significant information are the departments of Commerce and Labor. The U.S. Department of Commerce contains two data-generating agencies: the Bureau of Statistics and the Bureau of the Census. The U.S. Department of Labor similarly has its own Bureau of Statistics and publishes a wide range of useful data in the Monthly Labor Review. Each of these bureaus regularly collects and publishes information on business activity, labor and trade. The publications can be obtained through or inquired about by contacting:

Superintendent of Documents, U.S. Government Printing Office, Washington, DC. 20402

State information is also widely available much like that from the federal level. Regular releases are available on employment, business and population. A check list of all serial publications since 1985 and contained in the N.Y. State Library, may be obtained by contacting:

University of the State of New York, N.Y. State Library, Collection, Acquisition & Processing, Cultural Education Center, Albany, NY 12230

Tel: (518) 474-7492

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Printing Industries of America, Inc. 100 Daingerfield Road, Arlington, VA 22209

Tel: (703) 519-8100 Fax: (703) 548-3227

There are several other associations that could be of interest to specialized factions of the Canadian printing industry. Some of these associations and their addresses and also presented in Appendix E.

Possibly one of the best means of accessing data and gaining insights in the U.S. printing market is to monitor the independent trade and associations' publications. The timeliness of the publications combined with their tracking of newsworthy industry trends and developments keeps their readers well informed and in touch. The following passage presents summaries of some selected publications and articles. A list of the publications with contact addresses is presented in Appendix F.

The Canadian Printer, published by McLean Hunter has run a number of articles that will aid any firm considering exporting. The July/August 1993 issue (v. 101-6) reported the establishment of export markets by Tri-Graphic Printing in Ottawa and Mercury Graphics in Saskatoon, Saskatchewan. Both firms reported that the combination of specialized niche markets, a reputation for quality, the low value of the Canadian dollar and demand from American Print brokers contributed to their success. Similar articles describing how Canadian Printers can compete successfully in the United States ran in the September 1991 issue (v. 100-9) and the June 1990 issue (v. 99-6).

Since niche marketing should be an important part of any expansion effort, the May 1993 issue of *Canadian Printer* (v.102-4), which attempts to define niche markets, provides valuable information. Although the industries discussed are quick printing, business forms and in-plants, the article does raise many of the same issues confronting commercial printers.

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The August 1993 issue (v. 211) of *American Printer* reminds firms to stick to niches that have proven to be successful. The article makes the point that past success can be transferred to new markets. This echoes the view of many of the Canadian executives who had successfully penetrated the U.S. market.

Firms wishing to find a niche in a quality-based strategy might look at a review of Total Quality Management (TQM) in the same issue of *American Printer* (August 1993). TQM was seen as a necessity in maintaining a competitive edge in today's competitive environment. A case study of the successful niche strategy of HM Graphics of Milwaukee, Wisconsin is described in the July 1993 (v. 211) issue. According to the article, HM Graphics discovered that many of their customers were utilizing quick printers for short-run one and two color work. However, these competitors were unable to satisfactorily meet needs for add-ons such as die cuts, perfing, and folding. HM Graphics expanded into this marketplace and quickly found that profits were 30% higher than it projected.

A case study of how Japs-Olsen Printing, a commercial printer in Minneapolis with sales of \$47 million (US), has profited from sales of labels is included in the March 1993 (v. 210) issue of *American Printer*. Japs-Olsen President Bob Murphy, claims that the label niche is recession proof, but intense competition makes profit margins narrow. The experiences of Atlanta-based First Image Demand Publishing in the high tech, on demand printing arena are discussed in the February 1993 (v. 210) issue of *American Printer*. From a single site in 1981 First Image has grown into a \$21 million (US) firm with offices in Atlanta, Georgia; Los Angeles and San Jose, California; and Seattle, Washington. It has successfully targeted the needs of Fortune 100 firms for high volume and fast turnaround on demand printing.

Firms who wish to follow a product or process niche based strategy should examine the January 1993 issue (v. 210) of American Printer. The article, titled "What's Hot for 1993" cites

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American Printer frequently discusses sales promotion campaigns. The July 1993 (v. 211) issue discusses sales promotions from three different printers and why these promotions have been successful. The May 1993 (v. 211) issue also describes successful promotion campaigns, including a description of the efforts of The Printer in Halifax, Nova Scotia.

Graphic Arts Monthly Magazine, another American based trade publication has run a similar array of articles in the past year. Three times in the past year, Graphic Arts Monthly published intent to buy surveys. In July 1993 (v. 65), the subject was large format sheet presses; in May 1993 (v. 65), it was heatset web offset presses; in March, the subject was standard size sheet fed. All of these surveys included data on industry growth, average order size, and percentage of sales volume from different types of printers.

Specific examples and case studies have also been featured in *Graphic Arts Monthly*. The May 1993 issue (v. 65) examines the case of Smith Lithograph of Rockville, Maryland. The firm with sales of \$25 million (US) was expanding its capacity in the heatset web format to meet an anticipated demand for nonpublication work. The April 1993 issue (v. 65) illustrates the strategy of Quantam Color Graphics of Niles, Illinois. Quantam established a clean room environment of its shop floor that, along with its existing continuous improvement process and statistical process control, was responsible for much of its success.

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VII. SUMMARY

The area of interest consists of 35 counties of upstate New York and 5 counties of western Pennsylvania. Manufacturing is the largest business sector for the area, and printing and publishing is the second largest group of the sector. During the last recession, the printing industry of the area had some significant losses with more than 260 firms closing and approximately 4,000 jobs lost.

The end of the recession should mean improving trends in the United States, particularly for the printing and publishing industry. Certain sectors of the industry are expected to see growth rates of up to 9.0% in 1994. However, costs are expected to rise for U.S printers due to environmental regulations, capital improvements and employee training.

In addition to the rising costs, the relative competitiveness of U.S. firms has been shown to be weakening due in the most part to the deteriorating value of the Canadian dollar relative to the U.S. dollar. The exchange rate has been especially noticeable in the comparisons of changes unit labor costs.

In order to remain informed about the U.S. printing market, numerous sources of information are available. These sources include federal and state government agencies, trade associations, and industry publications. Lists contained in Appendix D for reference. The types of information that can be readily accessed includes labor rates and costs, distributions of printing firms by sizes within specific geographic regions, regular economic measures such as employment and work force figures, industry news and features, and business trends and forecasts.

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The end of the recession should mean improving trends in the United States, perioditarily for the printing and publishing industry. Caratra sectors of the industry are expected to are gravely rates of up to 9.0% in 1994. However, tests are expected to rise for U.S printers due to ensironmental regulations, capital improvements and employee training.

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Section 2 Interviews With Exporting Canadian Printers

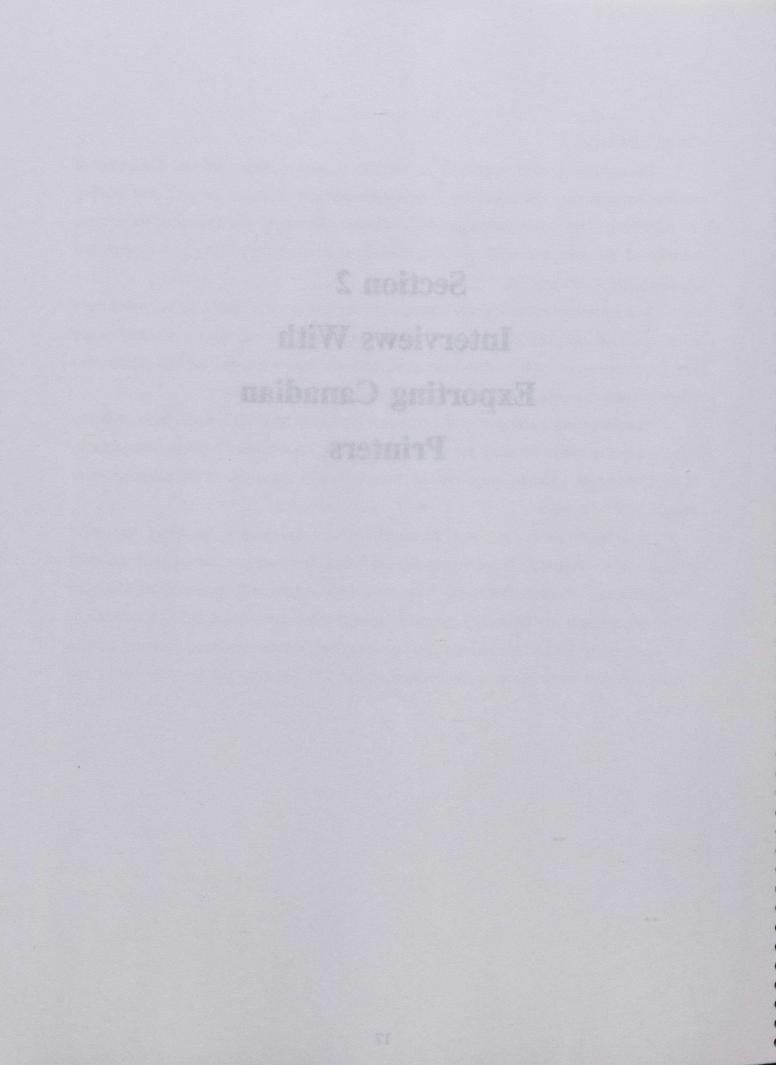
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HOW TO STAY IN THE U.S. MARKET

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I. INTRODUCTION

Statement of Objectives

The objective of this section of the report is to provide information and advice from the executives of Canadian printers that have expanded their markets to the United States. It is intended that this information will assist other Canadian printers to avoid problems and pitfalls that can be encountered in attempting to enter the U.S. market.

How this Section of the Report is Structured

This section contains information regarding gaining access to the U.S. market, necessities for U.S. market success, and methods for entering the market. *How to Stay in the U.S. Market* discusses how to maintain a position in the United States with details regarding how to generate and/or retain U.S. sales. Please note that all dollar figures are in Canadian dollars.

Method Used to Obtain Information

The information for this section was obtained through interviews of five Canadian printers with U.S. export or expansion experience. The firms which volunteered their assistance are all members of the Canadian Printing Industry Association (CPIA).

Background on Printers Interviewed

Key personnel interviewed from each of the five Canadian printing companies were: Don Griffin, owner and operator, and Randy Pope, Lowe-Martin's President of Synergy, of Lowe Martin, Ottawa, Ontario; Lyle Henderson, owner and operator of Henderson Printing in Brockville, Ontario; Brian Auty, owner and operator of Auty Printing in Toronto, Ontario; Mike Colinge, Vice President of Marketing and Sales for Webcom, Toronto, Ontario; and finally, John Morris, Chairman and Managing Partner of McLaren, Morris and Todd (MM&T) in Toronto, Ontario. Summaries of these interviews are provided in Appendix I to this report.

II. HOW TO GET INTO THE U.S. MARKET

Overcoming Perceived Barriers to Exporting

This section contains a discussion of methods that have either been successful or unsuccessful for Canadian printers who have exported products to the United States. According

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This section contains a discussion of methods that have either been morestel or merecentrial for Canadian printers who have experted products to the United States. According to the interviewees, motivation is an important quality that is commonly lacking in Canadian printers. Several of these Canadian printers think U.S. buyers would not be interested in importing their printing due to a strong "Buy American" bias, "Printed in Canada" labeling requirements, and geographic distance. However, interviewees believe that these can be overcome and should not prevent a Canadian printer from exporting.

1. Overcoming "Buy American"

The "Buy American" bias is perhaps the most feared impediment. John Morris of McLaren, Morris and Todd (MM&T) approached a large food manufacturer in the United States for its label business. His negotiations proceeded to the point where MM&T was invited to give a presentation to the key decision makers and submit a bid. On the day of the presentation he went to the manufacture's office and was greeted by a secretary wearing a large "Buy American" pin. Mr. Morris turned to his associate and said, "Were not selling anything here." Mr. Morris was right. He went into the meeting and faced a group of executives, who were almost visibly upset at his being there. Ultimately, MM&T did not get the account. Stories like this need not scare Canadian printers from trying to expand to the United States, but should be taken as forewarning of what could happen. All exporters may eventually run into the "Buy American" prejudice, and therefore must prepare themselves. The executives of MM&T decided they were not going to let this bias stop them. They are currently working on buying a printing company in the United States to establish a base of operations. This is one way to overcome the bias, but it may not be the best way.

It may be true that a U.S. buyer may prefer to choose a U.S. printer instead of a Canadian printer. To overcome this, a foreign printer must find out the most important benefits U.S. print buyers are seeking. "Buy American" loyalty can take a back seat to many other factors. Each of the printers/publishers interviewed overcame the "Buy American" objection by calling attention to other more important benefits that they offer. For example, Brian Auty found that there was a significant quality difference between his and U.S. printed material. Once he showed this to U.S. print buyers, his sales began to increase. Mike Colinge of Webcom believes that the most important factors are: cost, product quality, service, and reliability. If Mr. Colinge is correct, then a skillful job of sales information probing will find which of these benefits is most important to the U.S. customer. Once this is determined, a sales

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to the interviewees, monvation is an important englisy that is commonly lacking in Canadian printers. Several of these Canadian printers think U.S. bayers would not be interested in Importing their printing due to a strong "Say Amancan" bizs, "Frinted in Canada" labeling nequinoments, and geographic distance. However, interviewees believe that these can be bettered an exercising and should not prevent a Canadian printer from exporting.

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pitch can target one or all of these important benefits.

2. Overcoming "Printed in Canada"

U.S. Customs regulations require that certain Canadian print exports must have "Printed in Canada" printed on the product. This labeling requirement has caused many U.S. buyers to turn down a Canadian print bid. Lyle Henderson, of Henderson Printing and Mike Colinge of Webcom have directly combated the "Printed in Canada" labeling requirement. Webcom prints mostly books and catalogs, which traditionally have the publisher printed on the front or back cover. Printing the name and address of the publisher on any page (including the cover) requires that the "Printed in Canada" label must also be on that page. Both Webcom and Henderson have avoided this difficulty by placing the printer/publisher name along with "Printed in Canada" in an inconspicuous location, such as the copyright page of the book or catalog. This meets the legal requirements, but allows the firms to respond to the labeling concerns of U.S. print buyers.

3. Overcoming Large Geographic Distance

A Canadian printer should not worry about a large geographic distance that may exist between itself and its U.S. buyers. Auty Printing does business with customers in New York, Illinois, Texas, Arizona, and other states. Brian Auty says he has been able to accomplish this because U.S. print buyers are used to dealing over long distances with suppliers located throughout the United States. According to Mr. Auty, the trick is to make it seem like you are the printer next door. To do this, he believes it is an absolute necessity to have an "800" number to serve both U.S. and Canadian customers. This will help increase communication and reduce the perceived distance, which in turn leads to increased sales. In Auty's case, the "800" line calls cost approximately \$0.22 a minute and is seen as an affordable and wise investment.

Identifying a Market Niche

The interviewees all suggest that to successfully export to the United States, a firm should target a product or market niche in which it already excels. Randy Pope, President of Synergy for Lowe Martin, believes that if a Canadian firm has the idea that it will supply general printing needs to U.S. print buyers, it will surely fail. He believes that the U.S. market is already saturated with general printers and "being the 101st supplier on some buyer's list won't work."

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As a rule, Canadian printers cannot supply general printing needs in the United States from their Canadian center of operations because of U.S. competition. However, there are exceptions to this rule. Lyle Henderson, president of Henderson Printing, in Brockville, Ontario, is successful in exporting general printing due mainly to being located in close proximity to the Canadian-U.S. border. However, even with proximity to U.S. markets, Henderson has run into the perception among U.S. buyers that there is "a wall at the border." This perception has two parts: first, the U.S. buyers believe that Canada is a faraway and foreign country and second, international trade is too difficult. As an example, Henderson approached a U.S. buyer just 50 miles from Brockville and learned that the buyer was working with a general printer in the United States over 150 miles away. The buyer admitted that the distance made it difficult to work with the present printer. When Henderson explained that he could complete the work in Brockville, the first reaction of the buyer was that Brockville was too far away. Once the buyer learned that Henderson Printing was much closer than his current vendor and that international trade was not difficult, the buyer decided to hire Henderson.

Auty Printing, in contrast, is a successful exporter because it has exploited its niche in printing promotional material. This does not mean Auty has given up on expanding its product line. Brian Auty plans to expand into the U.S. in-store custom signage market by making an investment in innovative signage technologies that will allow him to present new and significant benefits to U.S. buyers.

If a Canadian firm is planning to get into a U.S. market, it should plan to be the best supplier in that market. A good indication of whether or not a firm can be a market leader is how well it serves its own markets. Randy Pope of Lowe-Martin believes that a firm currently serving only 2% of its local market niche will probably not be successful when expanding or exporting. The firm should excel in its local marketplace before it attempts to expand to the highly competitive U.S. market.

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The Need for Market Research

When considering the option of expanding into the United States, market research is extremely important. Brian Auty has made a regular practice of traveling to U.S. cities to explore for opportunities. He suggests that if a firm plans to export to the United States, it must research its target market with the objective of "finding the real reason that Americans would want to buy from Canadian printers." Lowe-Martin, is currently researching U.S. markets for scientific and engineering company concentrations. Webcom has already completed its market research. One niche of Webcom is colleges and universities, and it has thus chosen the college and university-rich Boston market for a sales branch.

Once a firm finds a market concentration, its next step should be to survey the competition. For example, Lowe-Martin is an excellent high-tech printer, but so is the world-wide conglomerate Donnelly Printing. Since Donnelly has the advantages of size and market credibility, Lowe Martin wisely plans to conduct its business in a market that Donnelly does not currently serve.

Buyouts, Joint Ventures and Partnerships

After deciding to enter the U.S. market, a Canadian firm has several alternatives to execute its plan of expansion. John Morris of MM&T believes that a buyout is the only way to enter the market. He feels this is the best way to gain credibility with certain provinciallyminded U.S. buyers. His opinion is based on the failure of MM&T's attempt to establish a branch office in New York City.

The partnership between Auty and Advanced Screen Printers (A.S.P. and later Auty, U.S.A.) was extremely successful. A.S.P. produced screen printed promotional products, just as Auty did, but was much smaller. After Mr. Auty showed the owner of A.S.P. that a partnership would be mutually beneficial, the companies developed a partnership contract, and A.S.P. changed its name to Auty, U.S.A. Annual revenues for Auty, U.S.A. jumped from \$360,000 to nearly \$2 million largely because of the expertise and investment provided by Auty, Canada. The owner of Auty, U.S.A. decided he did not want to take the risks that would be necessary to boost revenues to \$5 to \$10 million per year, so the official partnership was ended. Presently, a less structured working relationship continues to exist and is beneficial to both companies.

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Sales Representatives and Print Brokers

For clarification, this report defines sales representative as an individual who works solely for a particular Canadian printer. A print broker is an agent who represents many different printers. Some of the interviewees recommended avoiding print brokers. They felt that brokers could not provide the detailed product information which U.S. buyers would need. Sales representatives were preferable because they would provide individual attention and indepth product knowledge to customers. The estimated cost of a U.S. representative salary and commission plus office expenses range from \$75,000 to \$150,000 per year (\$75,000/yr. for a smaller market like Columbus, Ohio, but \$150,000/yr. for a large eastern city like New York). Two of the companies interviewed, Webcom and MM&T, had previous experience in establishing stand-alone representatives and offices, but John Morris of MM&T found this strategy to be "totally ineffective." MM&T had opened an office in New York City to prospect the consumer-goods labeling niche. After approximately one year it found the anti-foreigner bias to be too great and withdrew from the market. On the other hand, Webcom has been very successful with its offices in the United States and its New York City and Cleveland offices have successfully targeted the large book publishing markets in those cities. As mentioned earlier, the Boston office of Webcom has also generated substantial business for catalogs and related products through colleges and universities in the area.

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Networking

Networking generates personal contacts that may lead to future business operations. This type of activity is essential for generating prospective clients. Although following up on these leads can often be time consuming and may not prosper, one good contact may open several U.S. doors for a Canadian printer. Thus, networking is an excellent route for generating information regarding potential U.S. customers and joint venture partners.

1. Trade Shows

Brian Auty uses this prospecting method extensively. Mr. Auty examines the printed promotional material trade magazines for calendars of events and upcoming trade shows. In addition, he looks for trade shows or potential networking events in geographically focused printing trade magazines, trade magazines of customers in his printed promotional material niche, and newsletters from the Printing Industry Association (PIA), the CPIA, and other associations. At a typical U.S. trade show, Mr. Auty can generate 1,000 to 1,500 marketing leads. He follows these leads by placing them on a mailing list for Auty marketing materials and his firm regularly issues newsletters describing new products or industry developments. While at the shows, Mr. Auty regularly explores the background of a prospect and, if warranted, he will later make a personal call on the key decision makers of that company.

2. Associations

Associations sponsor numerous networking events such as seminars and conferences (see Section 7). For example, the PIA recently sponsored a seminar in Mexico entitled, "How to Sell Printing in Canada." Any person attending this meeting would be a prime candidate for a U.S.-to-Canada joint venture. Even if a Canadian firm was not actively seeking a joint venture, it might find the possibility interesting. However, Mr. Auty was the only Canadian printer present at the event. He believes that Canadian firms are not exploiting association opportunities and cites that he is one of only three CPIA printers who are also members of the PIA, that attend U.S. meetings.

3. Suppliers

U.S. suppliers are also valuable contacts. When Mr. Auty informed his U.S. supplier

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Networldag generates personal contacts that may lead to future business operations. This type of activity is essential for generating prospective clients. Although following up on these leads can often be time consumueg and may not prospective clients, one good contact may open several U.S. doors for a Canadian printer. Thus, networking is an excellent route for generating information regarding potential U.S. constoners and joint venume partners.

L. Trade Shows

Brian Acty uses the prospecting mathed estimatively. Mr. Auty communes the primted promotional material trade magazines for calendars of events and upcoming trade shows. In addition, he looks for trade above or gounnell asympthing events in geographically focused primting trade megazines, trade magazines of customers in his primted promotional material nicks, and newsletters from the Frinting Industry Association (FIA), the CEIA, and other associations. At a typical U.S trade slow, Mr. Auty can generate 1,000 to 1,500 marketing leads. He follows these leads by placing them on a mailing list for Auty matering materials and his firm requirely issues newsletters that association on a mailing list for Auty matering materials while at the shows, Mr. Auty requires the background of a prospect and, if warranked, be will lister make a personal cell on the ley decision materia of that company.

Z. Anteciations

Associations sponter numerous conversing events such as atminuts and conferences (see Section 7). For example, the FIA researchy spontened a seminar in Mercico entitled, "How to Bell Pelaring in Canada." Any person amading this meeting would be a prime candidate for a U.S. to-Casada joint venture. Even if a Canadian firm was not actively seeking a joint venues, it might find the possibility interesting. However, Mr. Anty was the only Casadian printer present as the possibility interesting. However, Mr. Anty was the only Casadian printer and case that he is one of only three CFIA printers who are also members of the FIA, that attend U.S. mechanismic is one of only three CFIA printers who are also members of the FIA, that

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U.S. suppliers are also vehable contacts. When Mr. Auty informed his U.S. supplier

that he wanted to start a joint venture with a U.S. company, the supplier put him in touch with the company that eventually became Auty, U.S.A..

4. Bi-National Companies

Another networking route is to establish ties with a Canadian subsidiary of a U.S. parent company or with a Canadian company that has a U.S. subsidiary. This method has been extremely effective for both MM&T and Lowe Martin. Don Griffin established strong ties with the president of Xerox, Canada who later became the president of Xerox, U.S.A.. When the Xerox executive moved, the business moved with him.

III. HOW TO STAY IN THE U.S. MARKETPLACE

Service

To stay in the U.S. market, excellent service is essential. As previously mentioned, an "800" line can be established to reduce the perceived distance and increase communication. Customers usually find an "800" number convenient for answering questions. Mike Colinge of Webcom best summed up the service philosophy of an exporter: "Our objective from day one is to make it seem that Webcom is the printer down the street. Webcom takes care of all the issues . . . we do not use metric measurement, pricing is all in U.S. dollars, and we take care of all required export documentation." The objective is to minimize any unforseen obstacles for the customer.

Service can also win new accounts. Auty won a U.S. account because it was willing to provide extra customer service. The prospective customer needed the final product shipped to 100 destinations instead of one, and this required special packaging that U.S. printers would not do. Auty stepped in, provided the necessary service, and won the account.

Shipping

Minimizing shipping costs is crucial to prolonged exporting success. The shipping costs for Webcom have averaged less than 5% of total costs, which often is less than its U.S. competition. To keep shipping costs low, Webcom ships regularly, allowing for possible negotiations with major independent carriers for better rates.

Auty Printing does not create the volume of cross border shipping that Webcom does.

that he wanted to start a joint venture with a U.S. conteasy, the supplier put him in touch with the company that eventually became Auty, U.S.A.

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Ant- Printing open not cause and volume of cross border shipping that Weicons down

However, it reduces shipping costs by using a secondary shipping site in the United States. According to Mr. Auty, a firm shipping one pound from Canada to the United States through a major carrier can expect to pay approximately \$35. However, if a firm ships to a U.S. destination by transport truck first, and then re-ships from that U.S. city, the cost would be roughly \$3 a pound. Generally, it costs Auty \$5 a pound to ship from Toronto to Columbus on its transport truck. Therefore, the total for Auty averages approximately \$8 per pound. All shipments made by Auty are prepackaged for secondary shipment by UPS once they are unloaded in Columbus.

U.S. Customs

There are various steps a company can take to minimize the delays at U.S. Customs. Although there is "free trade," a border crossing is virtually never without cost. According to Mr. Auty, clearance fees at Customs range from \$100 to \$200 per transport of printed products.

As volumes increase, border crossing difficulties generally decrease. If a firm ships one transport per week with 5,000 to 15,000 pounds on the truck, it will justify a line-item-release-form. This form is extremely helpful in not only avoiding delays, but speeding up border crossings as well. In addition, a firm should try to use the same point of entry. This will help increase familiarity between Customs and your firm, resulting in the reduction of delays.

It is important to properly mark the content of every box, because U.S. Customs will hold improperly marked shipments for classification and origin inquiries. A customs broker can help an exporter manage border crossings. Therefore, it can be beneficial to build a strong relationship with a broker.

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However, it reduces shipping costs by using a secondary shipping size in the United States. According to Mr. Auty, a firm shipping one pound from Canada to the United States through a major carrier can expect to pay approximately 335. However, if a firm ships to a U.S. desituation by transport track first, and then re-ships from that U.S. city, the cost would be noughly 53 a pound. Generally, it costs Auty 55 a pound to ship from Toronto to Columbus on its transport track. Therefore, the total for Auty averages approximately 58 per pound. All subprisents made by Auty are prepactaged for secondary shipment by U/S ance they are unionical in Columbus.

U.S. Casterns

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IV. SUMMARY OF FINDINGS

Interviews with key executives have produced a great amount of useful data. The value of this input will vary depending on the specific type of business a printer or publisher engages in. However, some key conclusions that cut across all printing specialties are summarized below.

- 1. Successful exporters may need to overcome "Buy American" prejudice, but it is possible to do so by stressing factors such as product quality, cost, service, and reliability.
- 2. Canadian printers should make it seem like they are located next door to the print buyers, rather than in a foreign country.
- 3. A firm should identify and exploit a product niche and, if possible, a concentration of buyers in a given geographic region.
- 4. Once a firm identifies a possible market, it should conduct appropriate market research and identify the competition.
- 5. Buyouts, joint ventures, and partnerships should be considered as means of entering the U.S. marketplace.
- 6. Sales representatives, rather than print brokers, should be used in direct sales to provide detailed product and vendor information to potential customers.
- 7. Canadian printers should take advantage of networking opportunities through trade shows, associations, supplier contacts, and Canadian subsidiaries of U.S. printers.
- 8. Providing good service is important in staying competitive in the U.S. marketplace.
- 9. Exporters should consider drop-shipping their product to a secondary U.S. site as a way to reduce shipping costs.
- 10. U.S. duties on printed products are generally limited, but exporters should be aware of U.S. Customs procedures. A customs broker is recommended.

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- C.S. duties on printed process are generally limited, but experime should be aware of "U.S. Customs procedures. A custom braker is recomminded.

Section 3

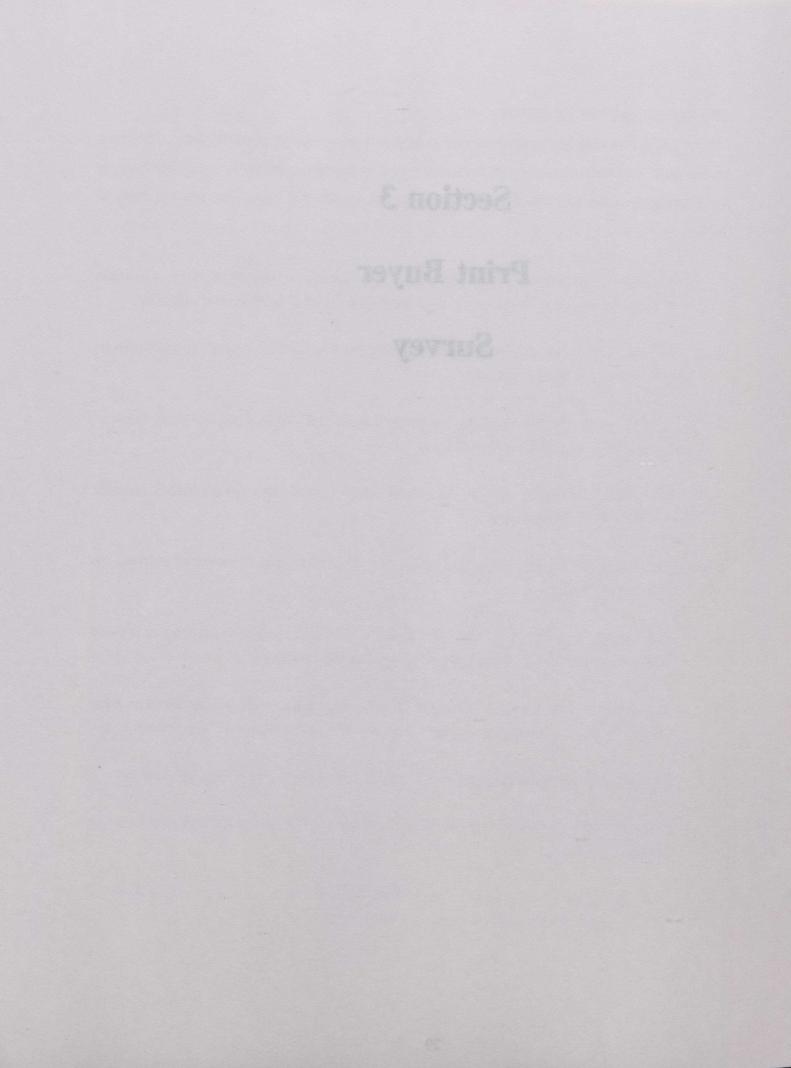
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III. Survey Topics.

Print Buyer

Survey



Print Buyer Survey

I. Overview of Print Buyer Survey

II. Method of Obtaining Information

III. Survey Topics

How Should a Canadian Printer Approach a U.S. Print Buyer? Qualifications Criteria Ranking 1. Cost and Service 2. Delivery 3. Printed in the U.S.A. 4. Product Quality

5. Turnaround

Anticipated Problems with a Canadian Printer Strengths & Weaknesses of Current Vendors

- 1. Strengths
- 2. Weaknesses

IV. Impediments for Canadian Printers

V. Information for Each Geographic Location in the Area of Interest

VI. Summary of Findings

BL SURVEY TOPICS

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L Overview of Print Buyer Survey

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3. Product Quality
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IV. Incontinuents for Canadian Printers

V. information for Pach Geographic Leveloh is the Area of Interest

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I. OVERVIEW OF PRINT BUYER SURVEY

A main objective of the print buyer survey was to find if there is a "Buy American" prejudice among U.S. print buyers that would hinder the chances for a Canadian printer to successfully export to the United States. In addition, information was gathered regarding how Canadian printers might best approach a U.S. print buyer and the specific criteria which influence print buyers' decisions. Our research further attempted to define other barriers that might prevent a Canadian printer from exporting to the United States.

II. METHOD OF OBTAINING INFORMATION

In order to gather relevant information, two methods were used to survey several large companies in six metropolitan areas: Plattsburgh, Binghamton, Syracuse, Rochester, Buffalo, and Pittsburgh. First, an attempt was made to call the purchasing agent in charge of commercial print buying for each company. If the person was cooperative, an interview was conducted. On the other hand, if the person was busy or otherwise not available, interview questions were faxed to be filled out and returned. Out of 90 companies contacted, 30 responded to the interview questions.

The companies were chosen on the basis of their annual revenues. Most of the firms contacted had revenues greater than \$10 million (US). Several of these firms had revenues greater than \$100 million (US) or even \$1 billion (US). Some of the exceptions to this were educational facilities, health care, governmental agencies, and advertising agencies (which were chosen due to their large annual printing expenditures).

III. SURVEY TOPICS

The following sections present the questions contained in the survey and give a synopsis of the most significant responses.

How Should a Canadian Printer Approach a U.S. Print Buyer?

In discussing ways for a printer to successfully approach an American print buyer, 62.5% of the companies surveyed had the same general view. In order to have a successful approach, a new vendor must make the initial contact. Canadian printers who wish to expand into the U.S. market must be extremely self-motivated when contacting U.S. print buyers. After the initial

L OVERVIEW OF FRIMT BUYER SURVEY

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In discussing ways for a primer to successfully approach as American print buyer, 52.5% of the exceptions surveyed had the same general view. In rader to have a successful approach, a new version must make the initial constant. Canadian primers who wish to axpand into the U.S. market must be constant, said motivated when contacting U.S. print buyers. After the initial

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contact, the buyer normally sets the tone of the business relationship. It may involve completing bid application packets, sending samples, quoting prices, or making a presentation. One company representative explained that any vendor who contacted them will be put on the bid list.

A Canadian printer, given a first offer from a print buyer, should be prepared to start with a small project. Generally, print buyers do not give large print jobs to printers that they have never worked with before. Most importantly, if the printer intends to become a regular supplier, then every aspect of this first print job must be flawless and impressive.

Qualifications of Vendors

The information obtained from the question of how vendors are qualified shows similarities among the responses from the print buyers. Unless the projects are extremely large and important, companies usually do not implement a qualification process. Only 7% of those surveyed revealed that they qualify their vendors.

Ranking of Order Winning Criteria

Each print buyer was asked to individually rank criteria based on the level of importance in making decisions to hire a print vendor. The ranking was classified on a scale from one to five, one being the most important and five being the least important. The items listed for consideration were cost or price, delivery (reliability), "Printed in the U.S.A.," product quality, turnaround, and service.

1. Cost and Price

Print buyers found cost or price to be an important criterion when hiring a vendor. The average total ranking for cost and service in the survey is 1.5, which scored third. Several of the firms surveyed stated that they work on a bid basis and thus projects are awarded to the lowest bidder. This criterion was ranked number one in Syracuse and Plattsburgh.

2. Delivery Reliability

The average total ranking score for delivery reliability in the survey is 1.67. Its overall total ranking by all of the areas surveyed is fourth. From the data obtained by the rankings, delivery reliability was an important factor in the decisions of the U.S. print buyers to hire a

contact, the buyer normality sets the tone of the business relationship. It may involve completing bits application preterns, conding samples, quoting prices, or making a presentation. One company representative explained that any vendor who contacted them will be put on the bid list. A Canadian printer, given a first offer from a print buyer, should be propared to start with a small project. Generally, print buyers do not give large print jobs to printers that they have never worked with before. Most importantly, if the printer intends to become a regular submits, the print before inter the print jobs to printers that they

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vendor.

3. Printed in the U.S.A.

Overall, U.S. print buyers ranked the importance of their material being printed in the United States very low. "Printed in the U.S.A" averaged a total ranking of 3.33 and scored last for five out of the six geographical areas surveyed (one area ranked this criteria fifth). The information gathered from this survey suggests that the "Buy American" bias which Canadians believe exists in American firms is much less than perceived. Far more important were criteria such as product quality, service, and cost or price.

From this survey, several U.S. print buyers expressed that since their printers are hired on a bid basis, Canadian printers would not be discriminated against. Nevertheless, there will be a small portion of print buyers who feel strongly about "Buy American." Only 17% out those firms survey represented this minority.

4. Product Quality

The average total ranking of product quality was 1.2 which signified that it was the most important criteria in the decision of hiring a vendor. Out of all the areas surveyed, Syracuse and Rochester ranked product quality as the most important factor. In the remaining areas, product quality was ranked a close second.

5. Turnaround

Turnaround received an average total ranking score of 1.75. Although this number represents a high degree of importance, several of those surveyed expressed their attempts to avoid rush deliveries or rush orders unless there was a critical time limit for an important project. In cases such as this, buyers stated that delivery would be ranked number one. In general, turnaround was given the highest importance in Binghamton only. All other areas ranked this criterion with lower importance.

6. Service

Overall, service scored an average total ranking of 1.33 and was placed as a close second to the most important criteria in the survey which was product quality. While Pittsburgh and

vendor.

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Rochester felt that service was the most important criteria, the remaining areas surveyed considered it to be less important.

Anticipated Problems With a Canadian Printer

While 36.67% of the print buyers surveyed anticipated having no problems in working with a vendor based in Canada, others expressed concerns. The biggest concern was on-time delivery (of those surveyed, 23.33% stated this concern). The second largest concern (expressed by 20% of the firms surveyed) was distance. The following is a list of concerns and the percentages representing those firms surveyed that stated those concerns.

| CONCERN | PERCENTAGE |
|---------------------------------|------------|
| None | 36.67% |
| On time delivery | 23.33% |
| Distance | 20.00% |
| Border crossing/paperwork | 16.67% |
| Communication | 13.33% |
| Physical sales | 13.33% |
| "Printed in Canada" requirement | 6.67% |
| Exchange rate | 6.67% |
| Regulations | 3.33% |
| Quality of work | 3.33% |
| Approval of client | 3.33% |
| Tariffs | 3.33% |

Strengths & Weaknesses of Current Vendors

The following are strengths and weaknesses which the surveyed print buyers feel their

current vendors possess:

1. Strengths

- Long term relationship
- Stores and packs
- Easy to check color and quality
- Cutting edge design and appeal
- Good service
- Cost competitive
- Good delivery
- Interaction with departments
- Very innovative
- Timely delivery even with rush jobs

- Anticipates needs
- Meets deadlines
- Good creative team
- Local
- Fair pricing; good quality
- Executive quality
- Customer-oriented
- Very aggressive
- Problem solvers
- Looks for ways to save company money

Rochesser felt that service was the most important criteria, the remaining areas surveyed envidened it to be less important.

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2. Weaknesses

- Size constraints
- Distance from printer
- Meeting deadlines
- Not innovative
- No silkscreening
- Small
- Pre-press problems
- Understaffed
- Small plant capacity
- Not very motivated

IV. IMPEDIMENTS FOR CANADIAN PRINTERS

There are only two reported general barriers for Canadian printers who wish to export to the United States. First, some firms are fearful of dealing with border crossing procedures. Since feelings like this are common, it is extremely important that cross-border transactions are handled smoothly. For such international expansion, it is essential for Canadian printers to research and learn the proper procedures for making border crossing simple and trouble free for the customer.

Another perceived barrier is distance. Many Americans think that Canada is located a great distance away and therefore do not want to work with a Canadian printer, thinking that they will not receive their product in a timely manner. To avoid this misunderstanding, Canadian printers should explain to American print buyers why distance is not necessarily a problem and how it can be overcome.

One option for a Canadian firm to ensure its ability to compete with other local U.S. printers is to explore either buying out or forming a joint venture with a firm already located in an area. As a result, distribution costs and delivery times could be reduced.

V. INFORMATION FOR EACH GEOGRAPHIC LOCATION

IN THE AREA OF INTEREST

Pittsburgh

Pittsburgh is the largest city that was included in the survey. Allegheny County, within which Pittsburgh is located, has a population of approximately 1.3 million people and is home to nearly 200 commercial printing firms (see Appendix B). Since this western Pennsylvania city has significantly more printing firms than the other cities included in the survey, it is not surprising that many print buyers in Pittsburgh mentioned that their printing needs are being satisfied locally. However, this does not necessarily mean that there are no opportunities for Canadian printers to penetrate the Pittsburgh market. Even though there are more printers in

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- using mod song
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- Understatted
 Small plant capacity
 Not very motivated

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V. IMPLIERAL FOR ENGS STATE GEORGIAPHIE LOCATION

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Print buyers in Pittsburgh were no more concerned with their distance to Canada than their counterparts in upstate New York State. Also, the relative importance of being printed in the United States is still consistently the least important factor affecting print buyers in Pittsburgh, just as it is in most of the upstate New York areas which were also surveyed.

For these reasons, it appears that there are opportunities for Canadian printers to obtain print jobs in Pittsburgh without necessarily opening a branch office in the city.

Buffalo

Buffalo is located in Erie County, New York and is the second largest area included in the survey in terms of population. There are approximately 970,000 people and 125 commercial printing establishments in this western New York area. The Buffalo market lies very close to the Canadian border, and many of the firms contacted are already conducting business with Canadian printing firms. Any printing firm based in the Toronto area would be able to service the Buffalo area very easily. Buffalo has a large amount of government and educational based organizations. Six of the top ten employers in Buffalo fall into one of these two categories.

Generally, print buyers in Buffalo are extremely open to being contacted by Canadian firms. However, since many Buffalo firms have experience in dealing with Canadian companies, they have also become knowledgeable regarding the problems that can arise. When asked about problems in dealing with Canadian printers, several Buffalo print buyers mentioned communication and distance to Canadian printers. For this reason, Canadian printers may have a harder time dealing with print buyers in Buffalo than in other areas that are located farther from the Canadian border.

Rochester

Rochester, New York, a large city on Lake Ontario, it is located in Monroe County which has a population of approximately 700,000 people and about 114 commercial printing companies. Despite being slightly smaller than Buffalo, Rochester is home to many well known Pitteburgh, there are also numerous firms which require printing services. Pitteburgh is home to nine FORTUNE 500 industrial corporations, and five FORTUNE 500 service corporations. It is generally characterized as a blue-collar city, and is considered to be the capital of the U.S. steel industry.

Print buyers in Pittsburgh were no more concerned with their distance to Canada (han their counterparts in apstate New York State. Also, the relative importance of being printed in the United States is still consistently the least important factor affecting print buyers in Pittsburgh, just as it is in most of the opstate New York away which were also surveyed.

ifor these reasons, it appears that there are opportunities for Cansalan printers to obtain print jobs in Pittsburgh without necessarily opening a branch office in the city.

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Print buyers in Rochester anticipated more problems in dealing with Canadian printers than print buyers in any of the other cities surveyed. Distance, delivery times, border crossing, exchange rates, communications, and "Printed in Canada" requirements, are just some of the concerns that Rochester print buyers mentioned. This was reinforced by the criteria-ranking section of the survey. When asked how the importance of being printed in the United States fit into their buying decision, Rochester print buyers ranked (on a scale of 1 to 5) it very important, with an average score of 1.8 (1 indicated most important and 5 indicated least important as it relates to their buying decision). For Rochester, "Printed in the U.S.A." scored higher than the importance of product price, which averaged 2.2. In each of the other cities involved in the study, the importance of being printed in the United States was consistently ranked least important in the buying decision, with an average score of 3.64. This data indicates that Rochester is not a favorable market for Canadian printers. Any Canadian firm attempting to enter the Rochester market would clearly have to overcome this barrier.

Syracuse

Syracuse, New York, located in Onondaga County, lies in the central part of New York State. Onondaga County is home to approximately a half million people and 61 commercial printing firms. There are few industrial firms such as Carrier Corporation and Martin Marietta. However, Syracuse contains a large number of medium-sized service related firms. Health care, banking, and insurance companies are very common in the city.

Of all the cities surveyed, Syracuse print buyers were the most optimistic about working with Canadian printers. Sixty percent of the firms contacted in Syracuse indicated that they would not anticipate having any problems while working with a Canadian printer (the average for the other cities in the survey was 32%) indicating that the Syracuse market holds attractive opportunities for Canadian printers to target.

Binghamton

Broome County, New York, where Binghamton is located, has approximately 200,000 people and 28 commercial printing firms. This southern New York area is a much smaller market than those areas previously discussed. However, this does not mean that Binghamton

industrial comorations such as Eastman Kodak, Bausch & Lomb, and Xerox.

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should be ignored. The importance of being printed in the United States was rated the lowest in this city, with an average score of 4.33. Also, since Binghamton is located directly south of Syracuse on Interstate Highway 81, it would be easy to service the two cities together. As a single market, Binghamton does not have very many large print buyers, and therefore would not require a full-time sales representative located in the area. However, it still warrants a look by Canadian printers.

Plattsburgh

Plattsburgh, New York, is a small city located in Clinton county which lies close to the Canadian border in the northeastern part of the state. Clinton County, an area with approximately 86,000 people and 10 printing firms, is by far the smallest market studied. Virtually all of the print buyers in this market have worked with Canadian vendors for two reasons. First, there is a definite lack of printing services in the area. Second, the closest large city to the Plattsburgh area is Montreal, Canada which is only one hour away. Working with Canadians is an everyday event for many Plattsburgh residents and businesses. The Plattsburgh area is a popular destination for Quebec vacationers, and its economy is heavily driven by Canadian tourist dollars. For these reasons, a Canadian printer would most likely be able to have success in this area. However, since it is an extremely small market, it would probably only be worthwhile for Montreal area firms who are in close proximity to Plattsburgh.

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and samples, and anking personal appearances and presentations were for two and inspectly mentioned ways. should be ignered. The importance of being printed in the United States was rated the lowest in this city, with an average source of 4.33. Also, since Singhamton is located directly south of Syracuse on Interstate Highway 81, it would be easy to service the two cities together. As a single market, Singhamaton does not have very many large print buyers, and therefore would not require a full-time sales representative located in the area. However, it still werrants a look by Canadian printees.

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V. SUMMARY OF FINDINGS

The survey of print buyers indicated that there definitely are opportunities for Canadian printers to export into the United States. It will not be an easy task, but with a good plan and hard work, it should be feasible. If a Canadian printer can compete in areas such as quality, service, fast turnaround, reliable delivery, and low cost, then it is very likely to be successful at winning orders for print jobs over its U.S. competitors.

Findings:

- 1. The most important criteria, as ranked by U.S. print buyers, were product quality, service, and price/cost.
- 2. U.S. print buyers in all cities except Rochester ranked "Printed in the United States" the <u>least</u> important criterion in their buying decision.
- 3. The importance of the bidding process was mentioned several times. This indicates that any Canadian firm that can compete on a cost basis can win print jobs.
- 4. On-time delivery, distance, and border crossing problems were the most frequently mentioned problems that American print buyers expect when dealing with a Canadian printing firm.
- 5. Exchange rates, regulations, and tariffs were not major issues to U.S. print buyers.
- 6. There is no best way to successfully approach U.S. print buyers. Sending business cards and samples, and making personal appearances and presentations were the two most frequently mentioned ways.
- 7. There are many opportunities for Canadian printing firms to export to Upstate New York and Western Pennsylvania. Of the cities surveyed, Rochester, New York, would seem to be the most difficult market for Canadian printers to enter.

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Section 4 Border Crossing

Information

II. Tariffe on Printing Products III. "Printed in Canada" Requirement IV. Shipping Alternatives and Costs Section 4 Border Crossing

Border Crossing Information

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I. Immigration and Temporary Entry Issues

NAFTA Chapter 16 Categories of Business Persons

- 1. Business Visitor
- 2. Traders or Investors
- 3. Intracompany Transferee
- 4. Professionals

II. Tariffs on Printing Products

III. "Printed in Canada" Requirements

IV. Shipping Alternatives and Costs

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III. *Friendel in Canada" Socializations

IV. Shineing Alternatives and Costs

I. IMMIGRATION AND TEMPORARY ENTRY ISSUES

NAFTA Chapter 16

Chapter 16, "Temporary Entry for Business Persons Entry" of the North American Free Trade Agreement (NAFTA) discusses the issues concerning movement of business travellers among Canada, Mexico, and the United States.

The objective of chapter 16 is to "reflect the preferential trading relationship between the parties (the U.S. and Canada), the desirability of facilitating temporary entry on a reciprocal basis and of establishing transparent criteria and procedures for temporary entry, and the need to ensure border security and to protect the domestic labor force and permanent employment in their respective territories" (NAFTA, Article 1601).

Definitions:

Business Person A citizen of a Party who is engaged in the trade in goods, the provision of services or the conduct of investment activities.

Temporary Entry Entry into the territory of a Party by a business person of another Party without the intent to establish permanent residence (NAFTA, Article 1608).

To enter the United States under NAFTA, an individual must be a citizen of either Mexico or Canada, and must prove admissibility under the existing United States immigration laws. Generally, Americans and Canadians are not required to carry passports or visas when entering each other's country. However, the person(s) entering may be required to provide proof of citizenship, in the form of a passport or birth certificate. Also, the person(s) entering must meet the measures relating to public health, safety, and national security of the visiting country.

Categories of Business Persons

Chapter 16 establishes four categories of business persons eligible for temporary entry. These categories, described in NAFTA Annex 1603, are as follows: Business Visitor, Traders and Investors, Intracompany Transferee, and Professional.

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(1) Business Visitor

To qualify as a Business Visitor, an individual must meet the following definition:

"A person engaged in international business activities related to research and design, growth, manufacture and production, marketing, sales, distribution, after-sales service, and other general services reflecting the activities in a complete business cycle, and receiving no remuneration from a United States source."

Business Visitors may enter the U.S. temporarily to engage in commercial activities of an international nature for an enterprise in Canada. Application for admission as a Business Visitor can be made at any U.S. point-of-entry. No fee is payable for an application in this category. Appendix J contains an arrival and departure card, which is required to be filled out at the U.S. point-of-entry, and surrendered at the Canadian point of entry.

The Business Visitor may be required to provide proof of the type of business activities that will be pursued while in the U.S, particularly if entry is being requested for an extended period of time. Generally, it is advisable to carry documentation describing the activity being carried out in the visited country. This documentation should be in the form of a letter written on company letterhead explaining the purpose of the visit, the product being promoted, and the length of the visit.

(2) Traders and Investors

Traders

A Trader is a business person seeking temporary entry into the U.S. to carry on substantial trade involving the flow of goods or services principally between the U.S. and Canada. Business persons may also qualify as a Trader if he/she is entering in an executive or supervisory capacity, or if they maintain skills which are essential to the efficient operation of the business.

Definitions:

(a) Substantial Trade is substantial if it generates enough income to support his/her family.

(b) Principally Over 50% of the trade must be between the U.S. and Canada.

(1) Business Visitor

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Investors

An Investor is a business person seeking temporary entry into the United States to develop and direct a bonafide enterprise in which he/she has made a substantial investment of capital. The business person must own over 50% of the enterprise, or maintain a controlling interest.

Business persons may also qualify as an Investor if they are entering in an executive or supervisory capacity, or if they maintain skills which are essential to the efficient operation of the business.

A Canadian qualifying as a Trader or Investor must proceed to the U.S. Consulate and have the required nonimmigrant visa inserted into his/her passport, or other travel documentation. This is one of the few times in which a Canadian must show a visa at the time of application for admission.

(3) Intracompany Transferee

An Intracompany Transferee is a business person seeking temporary entry into the U.S. for the purpose of rendering services to the same employer. The same employer may be in the form of a parent, branch, subsidiary or affiliate of a Canadian company. The individual must be coming to the U.S. in a capacity that is either executive, managerial, or requires specialized knowledge.

A Canadian seeking status as an Intracompany Transferee must have a petition filed, Form L-129, on his/her behalf by either the U.S. or foreign company. The Intracompany transferee may apply for admission at a port-of entry. This is done by presenting the petition, proof of citizenship and identity, and evidence of experience at the port of entry. A fee of \$50 dollars (US) is applicable upon application.

(4) Professional

A Professional is a business person seeking entry into the U.S. to engage in business as an occupation listed in Appendix 1603.D.1 of the NAFTA. A Canadian citizen seeking Professional status must present a letter of employment offering employment in a professional status, and proof that he/she possess professional status. Also, appropriate evidence of compliance with state license requirements must be presented. Application for Professional

investors.

An investor is a ousiness person susking temporary entry into the United States to develop and direct a bonafide enterprise in which hereine has made a substantial investment of capital. The business person must own over 50% of the enterprise, or maintain a controlling intenset.

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Appendix L, Additional Border Crossing Information, provides the above mentioned data in detail, as well as, additional information regarding border crossing issues.

II. TARIFFS ON PRINTED PRODUCTS

Tariffs on selected Canadian exports of commercial printing and related printing matter were gathered via the Harmonized Tariff Schedule (HS) of the United States (1994). The HS is an internationally recognized coding system intended to describe and classify goods in international trade. The following is a brief summary of how to read the HS Schedule.

Column Title:

<u>Rates of Duty - General:</u> Sets forth the general most-favored-nation (MFN) rates. Applicable to all products which do not fall within the Special column.

Rates of Duty - Special: Rates of duty applicable under one or more special tariff treatment programs. These programs, which include NAFTA, are further described in Appendix C, page 3 subparagraph (iii) and page 4 paragraph (c). Programs under which special tariff treatment may be provided, and the corresponding symbols which identify the programs are as follows:

| Generalized system of preference | A or A* |
|---------------------------------------|---------|
| Automotive Products Trade Act | В |
| Agreement on Trade in Civil Aircraft | С |
| North American Free Trade Agreement: | |
| Goods of Canada | CA |
| Goods of Mexico | MX |
| Caribbean Basin Economic Recovery Act | E or E* |
| United States-Israel Free Trade Area | IL |
| Andean Trade Preference Act | J or J* |

<u>Rates of Duty - 2:</u> Rates of duty that apply to products, whether imported directly or indirectly, from the following countries:

| - Afghanistan | - Kampuchea | - Tajikstan |
|---------------|---------------|-------------|
| - Azerbaijan | - Laos | - Cuba |
| - Uzbekistan | - North Korea | - Vietnam |

status can be made at the point-of-entry.

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Salter of Linute - 24-Maters of dusy their apply as produces, reaches imported directly or madirectly, from the following committee:

> - Afdrenisten - Kanganfren Tajikssa -- - Azorizajion - Leon - Cloa -- Uzbasisten - March Kosso - Vitteren

Most of the selected printed products fall within the *Special* rate of duty column. All of these products are free from duty. If a product does not fall within the *Special* column, it will commonly fall within the *General* column. The rates of duty in this column range from a high of 5.8% to free. The selected goods and their respected tariffs can be found on the following page.

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Rates of Duty General **HS** Code Special Commodity Registers, account books, diaries, etc. 4% 25% FREE - Diaries, notebooks, and address books memo 4820.10.20 pads, letter pads, and similar articles 25% FREE FREE - Other 4820.10.40 25% 4820.40 FREE 5.3% Mainfold business forms FREE 4% 30% Albums for sample & collections 4820.50 Paper labels, printed in whole or \$.0088/Kg \$.88/Kg part by a lithographic process FREE 4821.10.20.00 Paper labels, not printed 40% - Pressure sensitive 48219.20.00 FREE 5.8% 30% 3% FREE 48219.40.00 -Other 35% 5.3% Printed paper for resorting machines 4823.40 FREE FREE 3% 30% Paper, printed, embossed, etc. 4823.51 FREE FREE Brochures, leaflets, etc. in single sheets 4109.10 FREE FREE FREE FREE Music printed 4904.00 35% FREE 5.3% Globes, topographical, printed 4905.10 FREE 4905.91 FREE FREE Maps & charts in book form FREE FREE Maps & charts not in book form 4905.99 FREE FREE FREE Plans & drawings 4906.00 FREE \$.66/Kg Stamps, cheque forms, banknotes, bonds 4907.00 FREE FREE \$.66/Kg Transfers, vitrifiable 4908.10 FREE \$.132/Kg +3.5% +15% \$.88/Kg 4908.90 FREE \$.154/Kg Transfer. nes Postcards, greeting cards 25% - Postcards 4909.00.20 FREE 4% 45% - Other 4909.00.40 FREE 4.9% Calendars - Printed on paper or paperboard in whole or in part by a lithographic process * not over 0.51 mm in thickness 4910.00.20 FREE FREE \$.66/Kg \$.19/Kg * Over 0.51 mm in thickness 4910.00.40 FREE \$.0044/Kg 35% - Other 4910.00.60 FREE 3% FREE Trade advertising materials FREE FREE 4911.10 FREE \$.008/Kg \$.10/Kg Playing cards 9504.40 +20% +0.8% \$3.88/m2 FREE FREE Film for printing plates, not developed 3704.00.00 25% Film for offset printing plates, developed FREE FREE 3705.10 FREE FREE Photo plates & films, nes, developed FREE 3705.90 35% 5.3% Binders of paper 4820.30.00.10 FREE Printing type, blocks, plates, etc. FREE - Plates FREE FREE 8442.50.10.10 60% - Other 8% 8442.50.10.90 FREE

TARIFF SCHEDULE

TARDY SCHEDULE

Additional tariffs for various printed, and other products can be found in the HS Tariff Schedule in Appendix M. The additional headings on the tariff schedule are as follows:

Column Title:

<u>Heading/Subheading:</u> The 4 to 8 digit HS number relates to a specific product or family of products.
 <u>Stat. Suffix:</u> Further classification of products, if necessary.
 <u>Article Description:</u> Written description of specific products.
 Units of Quantity: The units of measure applied to the specific products.

III. "PRINTED IN CANADA" REQUIREMENTS

All printed products being exported to the U.S. must be labelled "Printed In Canada". However, the specific requirements for labeling products "Printed In Canada" have changed under NAFTA. Under NAFTA, only the *ultimate purchaser* of the product must be made aware of the country of origin. The ultimate purchaser is defined as the last person to buy the products. For example, if a retail store purchases printed products with the intent to resell the products, the *ultimate purchasers* are the consumers whom purchase the printed products from the retail store. However, if the same retail store purchased the printed products with the intent to give the products away as promotion, the *ultimate purchaser* is the retail store.

The labeling requirements are different depending upon the *ultimate purchaser*. If printed products are being imported into the U.S. for resale, these products must have "Printed In Canada" on them However, if the same products were being imported as gifts or promotional items, only the box in which the products are shipped in must have "Printed In Canada" on it.

Information obtained from:

Sally Farrell U.S. Customs Albany, NY 12231 Tel: (518) 298-8333 Additional testify for various printed, and other products can be found in the HS Tamif Schedule in Appendix M. The additional headings on the tariff schedule are as follows:

Column Titler

Insudurst/Industrialing, The 4 to 3 digit HS number relates to a specific product or family of products.
Stat. Suffix: Further classification of products, if necessary.
<u>Autole Description:</u> Writing description of specific products.

UL "PRINTED IN CANADA" REQUIRENENTS

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The labeling requirements are different depending upon its ultimate purchaser. If printed products are being introduct into the U.S. for reals, these promote must have "Printed in Canada" on them. However, if the same products were being i repaired as gifts or promotional lients, only the bear in which the preducts are sligged in must have "Realed in Canada" on it.

IV. SHIPPING ALTERNATIVES AND COSTS

One method for shipping to the United States is via United Parcel Service ("UPS"). Shipping products by other sources such as Federal Express or independent trucking agencies were also explored, but were found to vary too greatly to be thoroughly reported in this study.

UPS

Shipping charges are based upon service level, weight, and shipping zone. The service level can be either Express, Expedited, or Standard service. Explanations for the remaining two components follows.

The rates are based on the actual weight or the dimensional weight of the shipment, which ever is greater. The dimensional weight is determined using the International Air Transport Association (IATA) volumetric standard. The formula used to calculate the dimensional weight is:

Length x Width x Height 166

Once the weight has been determined, the shipping zone must be determined. This is done simply by matching the destinations postal code with the appropriate zone. After the zone has been determined a shipping rate can be determined.

A set rate charge has been determined for shipments under 500 pounds. This rate is zone dependent and will change from zone to zone. For shipments over 200 pounds, the rate is determined by multiplying the weight by the appropriate price per pound.

For more specific shipping information contact the following:

United Parcel Service International Services 1-800-782-7892 Ext. 4151 Contact: Shannon

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IV. SHUPPING ALTERNATIVES AND COSTS

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Gate the warght has been determined, the shipping zone must be determined. This is done simply by mutching the destinutions parent orde with the appropriate zone. After the zone has been determined a through rate can be determined.

A sur tree change has seen more acain for shipporters under 300 pounds. This mits is zone dependent and will change have seen at roat. For disperate over 200 pounds, the rate is descripted by meloiolying the weight by the arytopping price per pound. For more qualific moreover information conduct the following:

> United Parcel Statulat International Advisors 1-800-752-7392 Eat. 4151 Contect: Siteman

> > 23

I INDUSTRY BACKOROUND SUMMARY

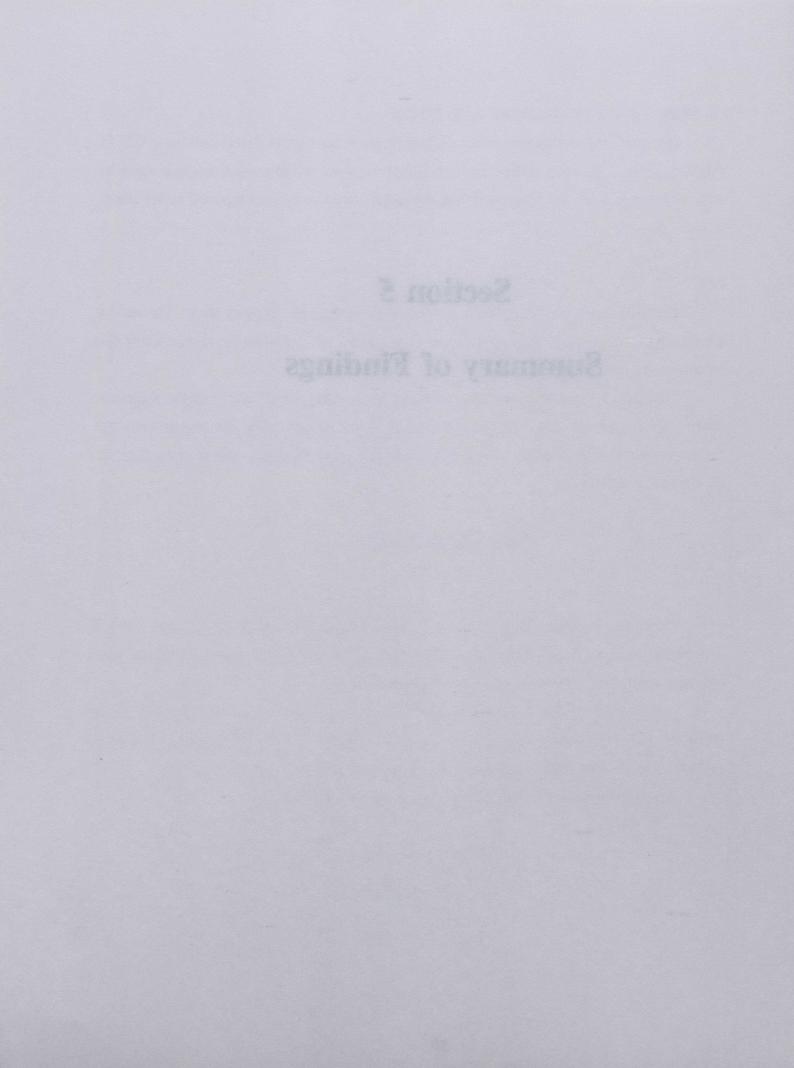
The area of interest manous of 10 question of upanets interest and a second of the second sec

Section 5

Summary of Findings

Economic measures such is employment and was first lipsten listuary news and income, and insidess brends and forecasts IL FORDINGS FIROM INTER VIEWS OF CANADIAN PRINTING EXPORTEES Instrument with key reconstructs have produced a press and an in a subset of the value of this input will say depending on the specific type of basiness a protein as a subset enough is. However, form key conclusions that cut across all printing specificles are submitted as

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I. INDUSTRY BACKGROUND SUMMARY

The area of interest consists of 35 counties of upstate New York and 5 counties of western Pennsylvania. Manufacturing is the largest business sector for the area, and printing and publishing is the second largest group of the sector. During the latest recession, the printing industry in the area had some significant losses with more than 260 firms closing and approximately 4,000 jobs lost.

The end of the recession should mean improving trends in the United States, particularly for the printing and publishing industry in general. Certain sectors of the industry are expected to see growth rates of up to 9.0%. However, costs are expected to rise for U.S printers due to environmental regulations, capital improvements and employee training.

In addition to rising costs, the competitiveness of U.S. firms has been shown to be weakening recently due to the deteriorating value of the Canadian dollar relative to the U.S. dollar. The exchange rate has been especially noticeable in the comparisons of changes in unit labor costs and manufacturing costs. Despite very similar national patterns for each of these cost areas, the decline in the Canadian exchange rate has been responsible for making Canadian manufacturing firms more competitive relative to U.S. firms.

In order to remain informed on the U.S. printing market, numerous sources of information should be followed from sources including both federal and state government agencies, trade associations and industry publications. Lists of these are contained in Appendix D for reference. The types of information that can be readily reviewed includes labor rates and costs, distributions of printing firms by sizes within specific geographic regions, regular economic measures such as employment and work force figures, industry news and features, and business trends and forecasts.

II. FINDINGS FROM INTERVIEWS OF CANADIAN PRINTING EXPORTERS

Interviews with key executives have produced a great amount of useful data. The value of this input will vary depending on the specific type of business a printer or publisher engages in. However, some key conclusions that cut across all printing specialties are summarized as follows:

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- 1. Successful exporters may need to overcome "Buy American" prejudice, but it is possible to do so by stressing factors such as product quality, cost, service, and reliability.
- 2. Canadian printers should make it seem like they are located next door to the print buyers, rather than in a foreign country.
- 3. A firm should identify and exploit a product niche and, if possible, a concentration of buyers in a given geographic region.
- 4. Once a firm identifies a possible market, it should conduct appropriate market research and identify the competition.
- 5. Buyouts, joint ventures, and partnerships should be considered as means of entering the U.S. marketplace.
- 6. Sales representatives, rather than print brokers, should be used in direct sales to provide detailed product and vendor information to potential customers.
- 7. Canadian printers should take advantage of networking opportunities through trade shows, associations, supplier contacts, and Canadian subsidiaries of U.S. printers.
- 8. Providing good service is important in staying competitive in the U.S. marketplace.
- 9. Exporters should consider drop-shipping their product to a secondary U.S. site as a way to reduce shipping costs.
- U.S. duties on printed products are generally limited, but exporters should be aware of U.S. Customs procedures. A customs broker is recommended.

III. SUMMARY OF FINDINGS FROM U.S. PRINT BUYER SURVEY

The survey of print buyers indicated that there definitely are opportunities for Canadian printers to export into the United States. It will not be an easy task, but with a good plan and hard work, it should be feasible. If a Canadian printer can compete in areas such as quality, service, fast turnaround, reliable delivery, and low cost, then it is very likely to be successful at winning orders for print jobs over its U.S. competitors.

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Findings:

- 1. The most important criteria, as ranked by U.S. print buyers, were product quality, service, and price/cost.
- 2. U.S. print buyers in all cities except Rochester ranked "Printed in the United States" the <u>least</u> important criterion in their buying decision.
- 3. The importance of the bidding process was mentioned several times. This indicates that any Canadian firm that can compete on a cost basis can win print jobs.
- 4. On-time delivery, distance, and border crossing problems were the most frequently mentioned problems that American print buyers expect when dealing with a Canadian printing firm.
- 5. Exchange rates, regulations, and tariffs were not major issues to U.S. print buyers.
- 6. There is no best way to successfully approach U.S. print buyers. Sending business cards and samples, and making personal appearances and presentations were the two most frequently mentioned ways.
- 7. There are many opportunities for Canadian printing firms to export to Upstate New York and Western Pennsylvania. Of the cities surveyed, Rochester, New York, would seem to be the most difficult market for Canadian printers to enter.

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CANADIAN PRINTING INDUSTRIES ASSOCIATION

STUDY OF THE PRINTING INDUSTRY

IN UPSTATE NEW YORK AND

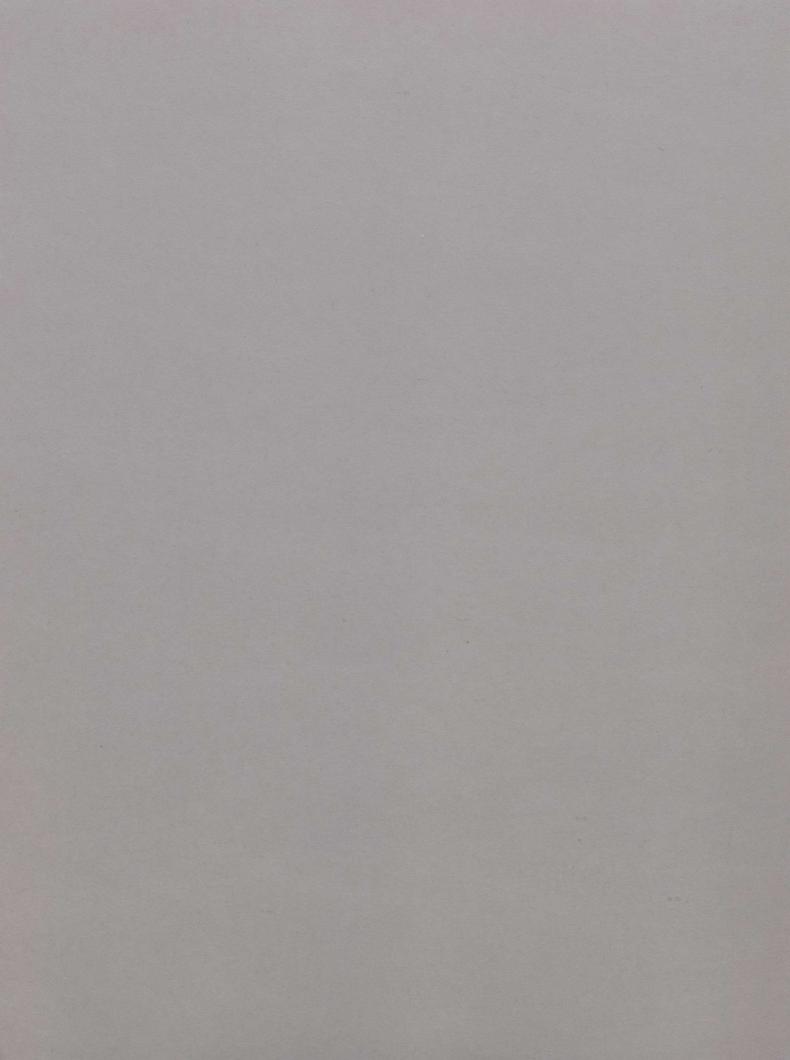
WESTERN PENNSYLVANIA

VOLUME II

Canadian-U.S. Business Consulting Service Clarkson University Potsdam, New York 13699 Tel: 315-268-7610 / FAX: 315-268-3810

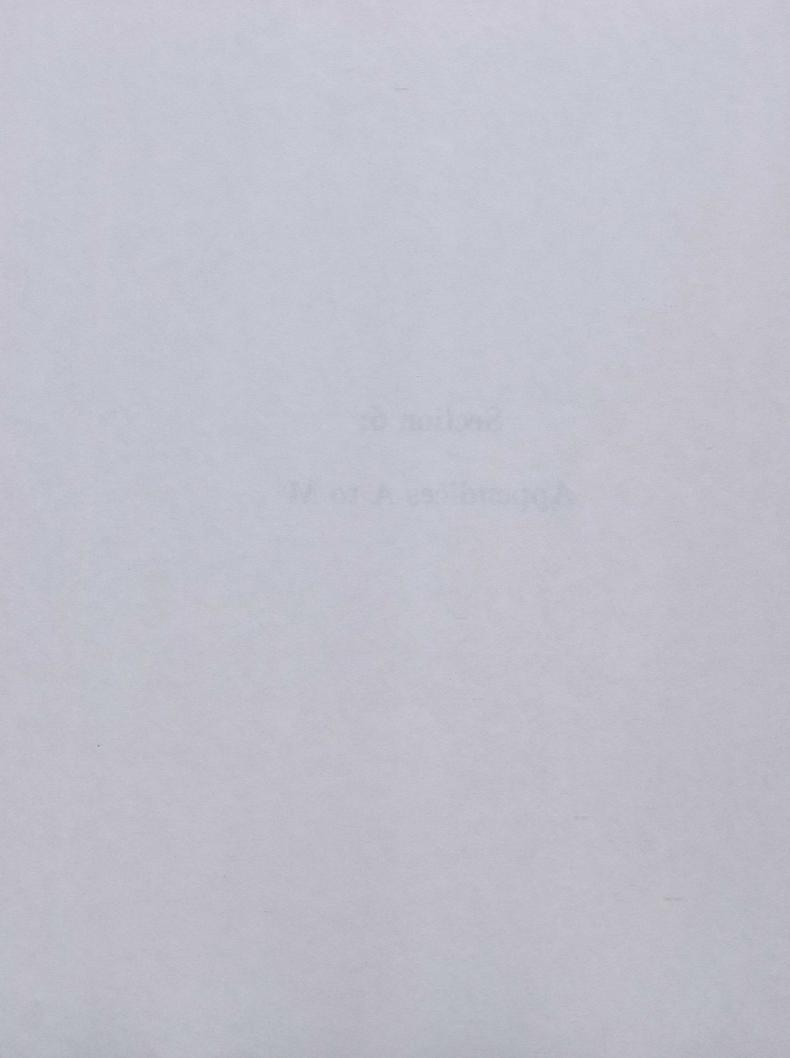
Consultants:

Stephen Crossman Sophia Gavrielides David Hilton Thomas McDonald Tracy Meyer William Thurber Todd Wilmett S t e p h e n W i l k i n s o n



Section 6:

Appendices A to M



Appendices

Appendix A: Maps of New York and Pennsylvania

Appendix B: County Business Patterns

Appendix C: Industrial Outlook - 1994

Appendix D: Sources of Information

Appendix E: Selected U.S. Printing Association

Appendix F: Magazine Literature Listing

Appendix G: New York State Printing Industry Association Members

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 Lowe Martin
 McLaren, Morris & Todd
 Webcom
 Henderson

Appendix J: Border Crossing Documents

Appendix K: NAFTA Chapter 16 "Temporary Entry for Business Persons"

Appendix L: Additional Border Crossing Information

Appendix M: Harmonized Tariff Schedule

Appendices

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Appendix J. Border Crossing Documents

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Appendix M: Harmonized Tardi Schedule

Appendix A

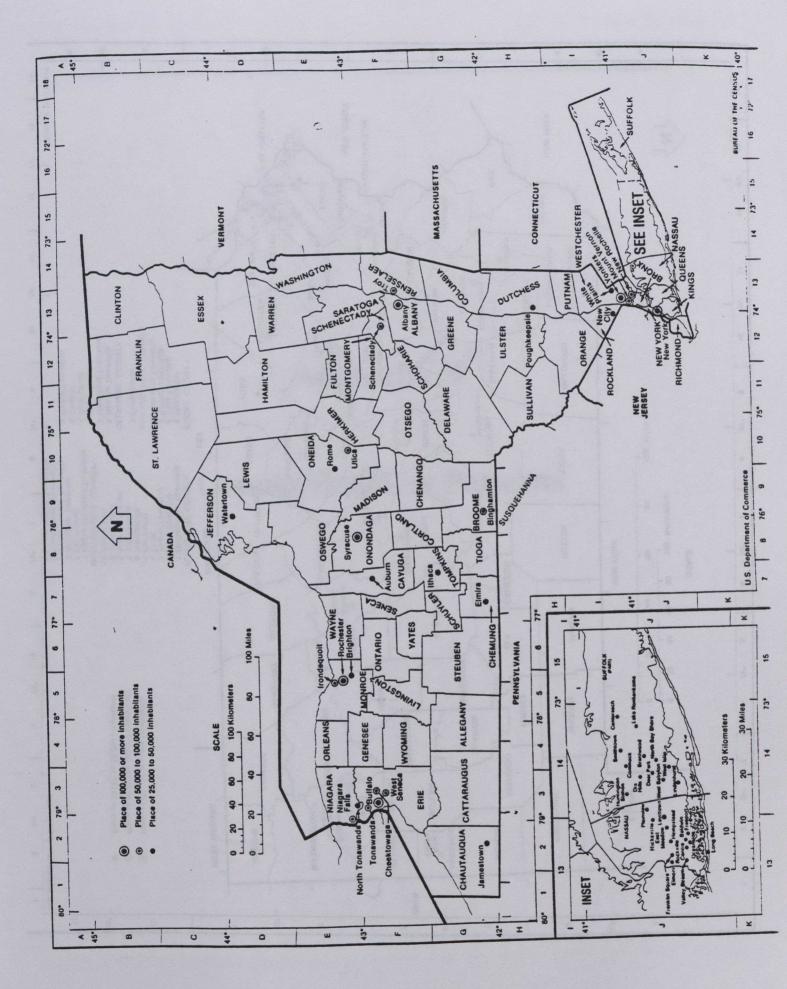
Maps of New York and Pennsylvania

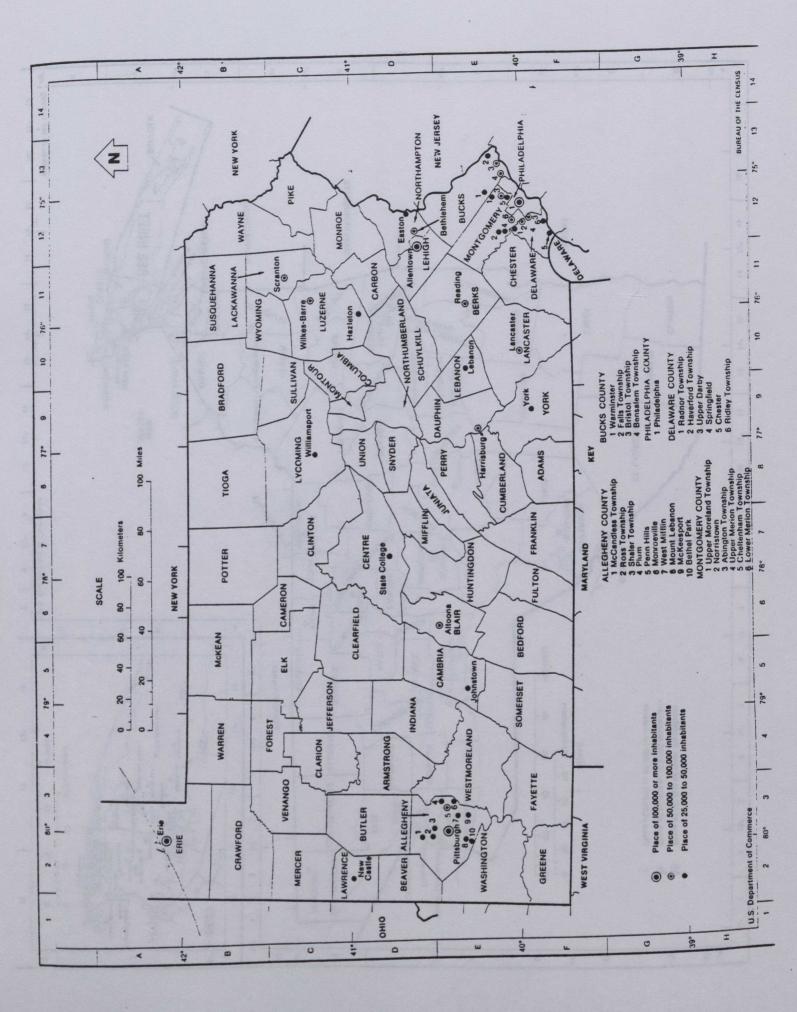
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Maps of New York and Pennsylvania



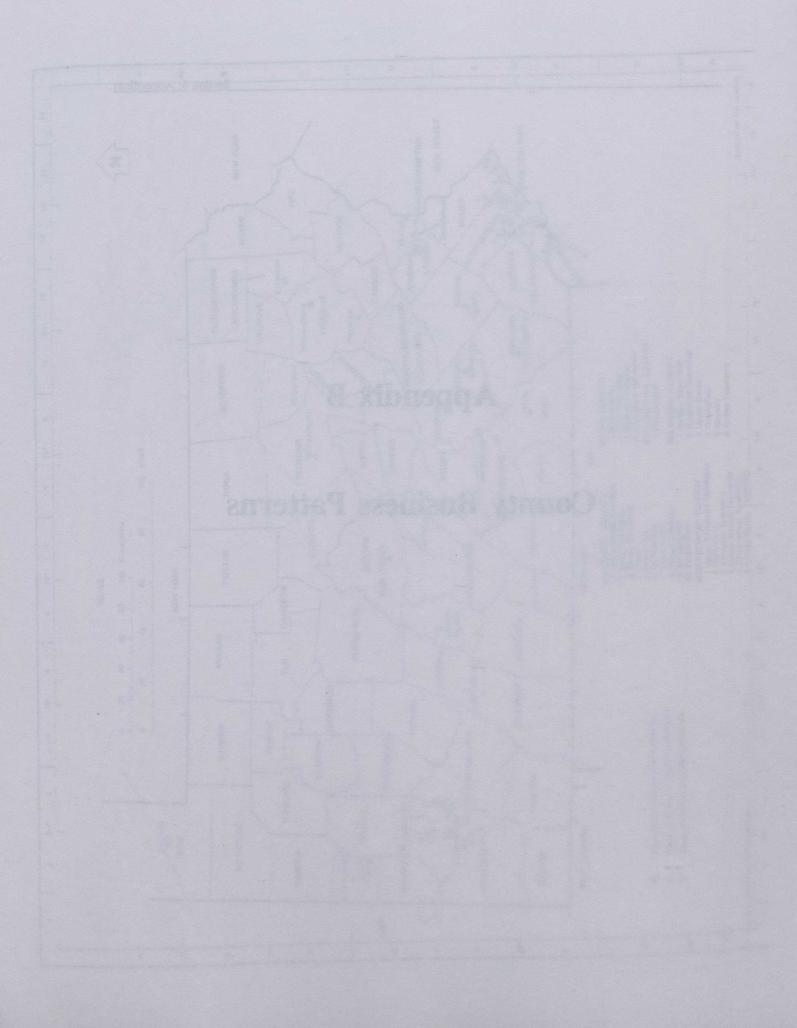


ACCOUNTY BUSINESS PATTERNES

Section 6: Appendices

Appendix B

County Business Patterns



COUNTY BUSINESS PATTERNS

PENNSYLVANIA 27

SVAB -

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1990-Con.

Excludes most government employees, nalroad employees, and self-employed parsons. Size class 1 to 4 includes establishments having payroli but no employees during mid-March pay period.

| | | Number of | Payroll | (\$1,000) | Total | | reumo | er of esta | | | - | | | |
|-----------|--|--|--|--|--|---------------------------------------|-------|----------------------|--|-------------|--------------------|------------------|------------------|------|
| • | Industry | employees for week including March 12 | First quarter | Annuel | of establish- ments | 1 10 | 5 10 | 10 to 19 | 20 10 | 50 to 99 | 100 10 249 | 250 to 499 | 500 to 999 | 1,00 |
| 1 | ALLEGHENY-Con. | | | | | | | | | | | | | |
| | Manufacturing-Con. | 100 10 10 | 10 K. 10754 | | 40 | | 7 | 10 | 3 | | 1 | 1 | - | |
| F | Furniture and fotures | 1 159 | 5 814 | 24 929 3 082 | 49 | 23 | 2 | 2 | 1 | 1 | - | - | - 1991 | |
| | Household furniture | 163 (C) | 670 (D) | 3 002 | 6 | 3 | ĩ | ī | - | 1 | - | - | - | |
| | Office furniture | (E) | (0) | 0 | 3 | - | - | 2 | - | - | - | 1 | - | |
| | Office furniture, except wood | (E) | (0) | (D) | 2 | 2 | 3 | 3 | 1 | 2 | 1 | - | - | |
| | Partitions and focures | 371 | 1 885 (D) | 7 698 (D) | 12 | 2 | 3 | 3 | i | Ī | - | - | - | |
| | Partitions and fixtures, except wood | 00 | (0) | (0) | 2 | - | - | - | - | | | - | | |
| | Miscellaneous furniture and fixtures Drapery hardware and blinds and shades | 96 (B) | 422 | 1 742 (D) | 94 | 2 | - | 2 | - | i | - | - | - | |
| ١. | Paper and allied products | 820 | 5 863 | 21 327 | 15 | - | 1 | 2 | 5 | 4 | 3 | - | - | |
| 1 | Paper mills | (8) | (0) | (0) | 1 | - | - | - | - | 1 | - | - | - | |
| | Paperboard containers and boxes | 439 | 2 809 | 11 448 | 7 | - | - | 1 | 2 | 2 | 2 | 1 | - | |
| 3 | Conjugated and solid fiber boxes | (E) (B) | 00 | | 1 | - | - | - | - | i | - | - | - | |
| 8 | Sanitary food containers | and the second | 2 516 | 7 168 | | - | - | 1 | 3 | 1 | 1 | - | - | |
| 3 | Misc. converted paper products Bags: plastics, laminated, and costed | (8) | (0) | 00 | 2 | - | - | 1 | 1 | - | 1 1 | - | 1 1 | |
| 7 | Converted paper products, n.e.c. | 1 (0) | 60 | Ö | 2 | - | - | - | 1 | 1 | - | - | - | |
| | Printing and publishing | 7 394 | 50 593 | 190 998 | 324 | 135 | 73 | 49 | 39 | 16 | 9 | 2 | - | |
| | Newspepers | 2 790 | 24 164 | 92 461 | 30 | 9 | 8 | 3 | 5 | - | 3 | 1 | - | |
| | Periodicale | 115 | 702 | 3 199 | | 7 | 3 | 2 | 2 | - | - | 1000 | | 1 |
| | Books | 95 | 442 (D) | 1 917 | | 65 | 2 | 2 | 22 | - | 1 | | | |
| 1 | Book publishing | 1 (0) | and the second second | 2 959 | | 3 | 1 | 1 | 1 | - | - | - | | |
| | Miscellaneous publishing | 2 600 | | A CONTRACTOR OF A | and the second second | 80 | 43 | 31 | 23 | 11 | 3 | - | - | |
| 2 | Commercial printing | 2 049 | 11 948 | | 126 | 50 28 | 26 | 20 | 19 | 3 | 3 | - | - | |
| 9 | Commercial printing, n.e.c | | | and the second second | | 1 | 1 | 1 | 1 | 199.00 | a series | 1 | - | |
| | Manifold business forms | | Contraction of the second | | A CONTRACTOR OF | 1 | 3 | 1 | 2 | 1 | 2 | | | |
| 12 | Blankbooks and bookbinding Blankbooks and looseleef binders Bookbinding and related work | EC C | | (D | | - | - | : | 1 1 | | 1 | | Section Lan | |
| ē | | (C | | and the second sec | AND AND A DESCRIPTION OF | | | | | | | | | |
| | Printing trade services | 544 291 251 | 3 551 | | 5 23 | 7 | 8 | 4 | | | | - | | |
| 21 | Typesetting Platemaking services | and the second se | AND THE OWNER AND THE REAL PROPERTY OF | | | 1 | - | 1 | | | | | | |
| | Chemicals and alled products | | | | and the second second | 15 | | 11 | | | | | | |
| | Industrial inorganic chemicals | . 25 | | | | 5 | 2 | 3 | | | | | | |
| 13 | Industrial pases | | | | n 4 | - | 1 | 1 | | - | | | | |
| 2 | Plastics materials and synthetics | 98 | 4 7.80 | | | 2 | | | | | | | | |
| 21 | Plastics materials and realins | | | | and the second of the | | | | | 2 | - | - | | |
| 34 | Pharmaceutical preparations | - (* | | | | - | - 1 | | | - | - | - | - 1 (Sec.) | • |
| | Scep, cleaners, and tollet goods | - 34 | | | | | | | | 1 | | 2 | | - |
| 42 | Polishes and sanitation goods | | | | | | | | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 2 | 2 | 1 | 1 . | - |
| 5 | Paints and alled products industrial organic chemicals | AND CONTRACTOR OF STREET | | | | | | | | - | - | 2 . | | - |
| 65 | CYCLC CTUDES and WHEITINGOLENES | -1 6 | | | | | - | | - | - | - | | | - |
| 69 | Industrial organic chemicals, n.e.c. | | and the second states of the s | And the second second second second | Contraction of the second s | | | | | 2 | 1 | 1 | - | - |
| 9 | Miscellaneous chemical products | - 31 | | | | | 2 | | | | 1 | 1 | - | - |
| 90 | Petroleum and coal products | - 4 | 3 3 56 | 0 15 84 | 11 20 | | 5 | • | 8 | 2 | 2 | 1 | - | - |
| 1 | Petroleum refining | | 50 36 | 7 14 | 12 4 | | 1 | Contraction of | 2 | 1 | - | - | | - |
| 5 | Asphalt paving and roofing materials | | 51 34 | and the second of the | | | | 2 | 1 | 1 | 2 | | | |
| 9 | Misc. petroleum and coal products | - 34 | | | 27 8 | | 2 | | 3 | | 2 | 1 | - Stress | - |
| 192 | Lubricating oils and greases | Section Street Street | | | and the second second | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 | 4 1 | | 5 | 5 | 5 | 1 | - |
|) | Rubber and miscellaneous plastics products | and the second sec | | | | | 1 | and the second | 2 | 1 | - | - | - | - |
| 80 169 | Fabricated rubber products, n.e.c. | | 57 38 B) (1 | | D) | | 1 | | ī | 1 | - | - | - | - |
| 28 | Miscellaneous plastics products, n.e.c. | | 30 96 | | | | 7 | 4 | 7 1 | 3 | 5 | | 1 | - |
| 81 | Unsupported plastics film and sheet | - 2 | | 57 77 | D) 32 | | 1 | - | - | 2 | 5 | 1 3 | ī | - |
| 82 | | | | | 92 3 | | 2 | Level Carl Contracts | - | 0 | Contraction of the | 5 | 2 | |
| | Stone, ciay, and glass products | - 25 | 64 17 8 | 54 74 5 | 11 8 | 2 | 27 2 | 0 1 | 6 | 14 | 5 | 1 | - |] |
| 1 | Flat glass | (| 0 0 | | | 1 | - | - | - | - | - | 2 | 1 | - |
| 2 | Giass and glassware, pressed or blown | 6 | 32 5 9 | | 02 | 5 | 2 | = | 1 | - | - | - | 1 | - |
| 221 | Glass containers Pressed and blown glass, n.s.c | | | | | 5 | 2 | - | 1 | - | - | 2 | - | - |
| 23 | Products of purchased glass | Contraction of the second | And the second second second | MARK BUILDEN STREET | (D) 1 | 1 | 3 | 6 | - | - | 1 | - | 1 | |
| 25 | Structural ciary products | | 72 7 | | 597 | 9 | 2 | - | 3 | 3 | 1 | - | - | - |
| 251 | Brick and structural clay the | | (B) | 0 | | 2 | 2 | - | 3 | 2 | - | - | - | - |
| 255 | Pottery and related products | College of the second second | | | A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE | 3 | 1 | - | - | - | 1 | ! | - | - |
| 269 | Pottery products, n.e.c. | | 00 | D | (D) | 3 | 1 | - | - | - | 1 | 1 | - | - |
| 27 | Concrete, gypeum, and plaster products Concrete block and brick | 3 | 2 3 | 50 12 0 | | 1 | 10 | 5 | 3 | | - | - | - | - |
| 271 | Concrete OfOCLECE, ILU.C | | 57 2 | 52 1 2 41 7 0 | | 3 | 3 | 3 | 3 | 4 . | - | - | - | - |
| | Ready-mixed concrete | | | 56 4 | | | | | | | | | | |

Note: Employment-table classes are indicated as follows: A=0 to 19; B=20 to J=10,000 to 24,999; K=25,000 to 49,999; L=50,000 to 89,999; M=100,000 or more.

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

Excludes most government employees, railroad employees, and self-employed cersons. Size class 1 to 4 includes establishments having pavroll but no employees during mid-March pav penod (2) cenotes tigures withheig to avoid disclosing data for individual companies. For explanation of ferms, statement on reliability, and companies, with other data, see introductory text.

| | Number of | Payrol! (| \$1,000) | Total - | | Numb | er of esta | blishmert | s by empi | ovment-s | ize class | | |
|---|------------|---------------|---------------|------------|---------------------------|--------|---------------|-------------|--------------|------------------|------------------|--------------------|-----|
| Industry | for week - | First quarter | Annual | establish- | 1 to . | 5 to : | 10 to : 15 | 20 to 49 | 50 th 99 | 100 to 249 | 25C :0 499 | 500 . to 939 | 1.3 |
| BROOME | T | | | 1 1 | | | | | | | | | |
| Total | 86 116 . | 465 968 1 | 1 969 632 | 4 621 | 2 242 : | | | | | | 19 | 5: | |
| Agricultural services, forestry, and fishing | 265 : | 1 151 | 6 647 | 4 021 | | | 561 . | 428 | 159 | 86 | 19 . | 3. | |
| Agricultural services. Torestry, and maning | (E) : | (D) | (D) | 43 | 29 : | 5 | 8. | | 1. | | and taken in | - | |
| Vetennary services | 93 : | 354 | 1 560 | :2 | 4 | 3 | 5 | - | | and the | 1000 | - | |
| Landscape and horbcultural services | 164 : | 790 | 5 052 | 29 1 | 23 | 1 | 3 | • | beren . | - | | | |
| Mining | (A) | (D) , | (D) | 2 | - 1 | 2 | | | | and the | | | |
| Construction | 3 569 ; | 20 676 | 102 810 | 446 | 268 | 86 : | 48 : | 33 | 8 | 3 | | - " | |
| General contractors and operative builders | 935 ! | 4 573 : | 22 737 | 130 ; | 88 : | 22 . | 9 | 9 | 1 | 1 | | - : | |
| General building contractors | 747 : | 3 914 | 19 124 | 77 | 48 | 13 | 6 ' | 9 | a start i he | 1 * | | - 11 | |
| Heavy construction, except building | 170 1 | 967 : | 7 944 | 30 | 16 | 8 | 5 : | • * | | Carlo and | - : | -1 | |
| Highway and street construction | 80 · | 450 ' | 3 762 | 12 | 6 | 3; | 21 | 1 . | - | | -1 | - | |
| Heavy construction, except highway | 64 1 | 431 | 3 608 | 12 | 6 | 41 | 21 | | | - ; | | - | |
| Special trade contractors | 2 464 ' | 15 136 | 72 129 | 286 | 164 | 56 1 | 34 1 | 23 | 7 ' | 2 | | - : | |
| Plumbing, heating, air-conditioning | 653 ; | 4 559 ; | 20 508 | 55 | 22 | 17 | 8 ! | 6. | | | - 1 | | |
| Painting and paper hanging | 94 ; | 373 | 2 592 | 31 | 25 | 1 : | 5 | - : | - | - • | - | | |
| Electrical work | 490 : | 3 435 | 17 312 | 32 | 12 | 8 | 6 | 3 : | 2 | 1 | 0.00-0.00 | | |
| Masonry, stonework, and plastening Masonry and other stonework | 419 95 | 2 892 | 12 582 2 925 | 30 | 16 | 4 | 5 | 2. | 3 | | | - | |
| Plastering, drywall, and insulation | 280 | 1 980 : | 8 844 | 13 | 8 | 2 | 2: | 2; | 3. | 1 | | - ; | |
| Carpentry and floor work | 82 ! | 417 | 2 128 | 24 | 21 | 1 ' | 11 | 1 : | -1 | - | - : | | |
| Roofing, siding, and sheet metal work | 250 | 1 449 | 6 046 | 27 | 13 | 7 | 1 | 6 | -: | -1 | | - | |
| Concrete work | 69 | 218 | 1 717 | 20 | 14 | 4 | 11 | 1 | -! | - | - | - | |
| Misc. special trade contractors | 322 | 1 470 | 7 293 | 40 | 21 | 10 | 4 | 4 | 1 | | - | - | |
| Glass and glazing work | (B) 97 | (D) 345 | (D) 2 619 | 3 | 10 | 5 | 2 | | | | | -1 | |
| Special trade contractors, n.e.c. | 136 | 647 | 2 824 | 14 | 8 | 41 | 1 | 3! | - ; | - ! | - | - | |
| Manufacturing | 26 608 | 209 188 | 877 308 | 252 | 63 | 50 | 32 | 42 1 | 28 : | 22 ; | 71 | 3! | |
| Food and kindred products | 938 | 5 489 | 23 931 | 14 | 3 | - i | 3 | 4 | 2; | 1; | | 1 | |
| Carry products | 00 | | (0) | 1 | - | - | - | - | - | 11 | - | - | |
| Fluid milk | 174 | (D) 520 | (D) 2 426 | | | - | | | | 1 | -: | _ | |
| Bakery products Bread, cake, and related products | 162 | 505 | 2 363 | 5 | 1 | | -1 | 2 | 21 | - | -1 | - : | |
| Misc. food and kindred products | (F) | (0) | (D) | 1 | -1 | -1 | | -1 | - | | - 1 | • | |
| Potato chips and similar snacks | (F) | (0) | (0) | 1 | - | -1 | -; | - : | - | - : | - | | |
| Apparel and other textile products | 319 | 1 488 | 6 190 | 11 | 41 | 3 | - | 2 | 1 | 1 | | - 10 | |
| Misc. fabricated textile products | (E) (B) | | 00 | 9 | 2 | 2 : | | | 1 | 1 | -! | - | |
| Canvas and related products | 0 | | (D) | 2 | -1 | 1 | - | - | - | 1 | - | - | |
| umber and wood products | 91 | 455 | 1 897 | 11 | 6 | 2 | 11 | 2 . | - | - | - | - | |
| Sawmills and planing mills | 65 | 365 | 1 613 | 3 | - | - i | 1 | 2 | - | - 1 | -1 | - | |
| Sawmills and planing mills, general | 65 | 365 | 1 613 | 3 | -1 | -1 | 1: | 2 | | - | - ; | - ! | |
| Furniture and fixtures | 114 | 657 | 2 321 | 7 | 2 | 2 | 1 | • • • | 1 | - | - | | |
| Office furniture | (B) (B) | | | 1 | = | -: | | =! | 11 | -1 | | | |
| Paper and allied products | 303 | 1 299 | 7 085 | 5 | - | 2 | -1 | 1 | 1 | 1 | -1 | - 1 | |
| Paperboard containers and boxes | 1 m | | | 4 | - | 2! | - | 11 | -! | 1 | _! | - 1 | |
| Corrugated and solid fiber boxes | 00 | 00 | 00 | 2 | - j | 11 | -1 | - | | 1 | | - | |
| Misc. converted paper products | (8) | (0) | (0) | 11 | -1 | - : | - 1 | - i | 11 | -! | -: | | |
| Die-cut paper and board | (8) | | (0) | 47 | | 13 | 6 | | 4 | | 1, | - | |
| Printing and publishing | 1 626 | 8 368 | 33 304 | 3 | 15 | 131 | 0 | | | - | | -1 | |
| Newspapers | (8) | (D) | (O) (D) | 5 | 1 | | | | -1 | | | | |
| Book printing | EE | | (0) | 3 | - | | -; | 1 | 1: | | -1 | 1 | |
| Miscellaneous publishing | 82 | 110 | 298 | 4 | 2 | - | • | -! | 1 | - | -i | - : | |
| Commercial printing | 373 | 2 020 | 7 437 | 27 | 8 | 10 | 21 | 51 | 2 | - 1 | - ; | - | |
| Commercial printing, lithographic | 361 | 1 973 | 7 230 | 24 | . 1 | 8 | 2 | 5 | 21 | -; | -1 | | |
| Chemicals and allied products | (C) | (0) | (0) | 2 | - | 1; | | -: | | 11 | - | | |
| Soap, cleaners, and toilet goods | 00 | 00 | 0 | 1 | = | | - | - | - | 1 | | 1 | |
| Rubber and miscellaneous plastics products | 974 | | 18 923 | 19 | - | | 5 | 5 : | | 3. | - | - | |
| Rubber and miscellaneous plastics products | (C) | 5 165 (D) | 18 923 (D) | 2 | | 1 | 3 | | tren artes | 11 | | - | |
| Fabricated rubber products, n.e.c. | | (0) | (0) | 2 | | | - | 1. | 1 | | - | | |
| Fabricated subber products, n.e.c. | 00 | | (0) | 2 | -1 | - | - | i | 11 | - | -1 | - 1 | |
| Miscellaneous plastics products, n.e.c. | F | (0) | (D) | 15 | 1 | 1 | 5 | 3 | 3 | 2 | - | - | |
| Plastics products, n.e.c. | 434 | 2 568 | 10 401 | 4 | | -1 | - | | 2 | 2 | - | - | |
| | 524 | | | | | | | - | | 1 | | - 1 | |
| eather and leather products | (C) | 2 289 | 9 392 | 3 | - | - | - | - | 1 | 1 | -1 | -1 | |
| Footwear cut stock | (C) (E) | (D) | (D) | 1 | - | | - | 1000 | TRACTO | i | , | - 1 | |
| Footwear, except rubber | | | (D) (D) | | - | -1 | -: | - | -1 | - | | - | |
| Leather goods, n.e.c. | (8) | (D) | (0) | | Contraction of the second | | ! | 10000 | 1 | : | : | - 1 | |

Note: Employment-size classes are indicated as follows: A=0 to 19; B=20 to 99; C=100 to 249; E=250 to 499; F=500 to 999; G=1,000 to 2,499; H=2,500 to 4,999; I=5,000 to 9,999; J=10,000 to 24,999; K=25,000 to 49,999; L=50,000 to 99,999; M=100,000 or more.

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con

Excludes most government employees rainoad employees and self-employed persons. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay pence. (2) denotes figures withheir to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.

| SC | | Number c' employees | Payroll (S | 1.000) | Total number | | NUMD | er of esta | Distimen | ts by emp | ioyment- | 3120 0103. | | |
|-----|--|--|---------------|-----------------|-----------------|-------------|--------|------------|--------------|-------------|----------------------|------------------|------------------------|-----------|
| ode | . industry | tor week | First quarter | Annual | establish- | 1 to | 5 to ' | 10 to | 20 to : | 50 to 99 | 100 ' to 249 ' | 250 to 499 | 500 · to : 999 · | 1,0 mc |
| | CLINTON | 1 | | | | | | | | | : | | | |
| | | 22.052 | | | | | | | 150 | | | .1 | 2 . | |
| | Agricultural services, forestry, and fishing | 22 953 60 | 97 958 | 428 469 | 1 888 | 1 002 | 418 | 240 | 152 : | 45 | 24 : | | | |
| | Agricultural services | (B) | . (D) | (D) | 12 | 8 | 3. | | _ | _ | - | 1 | _ | |
| | Mining | (A) | (D) | (D) | : | 11 | - ' | - | | - | _1 | -1 | -1 | |
| | Construction | 1 057 | 5 901 | 31 983 | 185 | 127 | 34 | 15 | 8 | | 1 | - ! | - | |
| | General contractors and operative builders | 598 | 3 613 | 17 213 | | 55 : | 13 : | 5 | 5 | - : | 1 | - | - ! | |
| • | General building contractors | 484 | 3 127 | 14 789 | 40 | 24 | 71 | 3 | 5 | - 1 | 1 | | -1 | |
| | Special trade contractors | 51 4C8 | 250 | 3 863 | 10 | 6 | 2 | 2. 8 j | 31 | | | | | |
| | Plumbing, heating, air-conditioning | | | 10 907 2 431 | 96 | 66 ; 8 ; | 3: | 21 | - | -1 | | | | |
| 2 | Painting and paper hanging | 66 | 449 ! | 1 674 | 12 | 8 | 2 ! | 1 | 1 | - i | - 1 | -! | | |
| 3 | Electrical work | 75 | 429 | 1 872 | 12 | 8 | 2 ! | -: | 2 | - | - | - 1 | - : | |
| | Manufacturing | 4 291 | 26 479 | 114 154 | 93 | 37 | 15 ; | 9 i | 10 | 10 1 | 8 i | 2 | 2 ' | |
| | Food and kindred products | (C) | (D) | (D) | 3 | - | 1 | - | 1 | - | 1 | - : | - | |
| 1 | Bakery products Bread, cake, and related products | (C) (C) | (D) (D) | (D) (D) | 1 | 1 | - | | | - | 11 | 1 | 2 | |
| | Textile mill products | (B) | (D) | (D) | 2 | - | - | - | 2 | - 1 | - 1 | - 1 | | |
| 9 | Knitting mills | (B) | (D) | (D) | 2 | - | - | - | 2 | - | - 1 | | | |
| 3 | Knitting mills, n.e.c. | (B) | | (D) | 2 | - | | - | 2 | | - | - | | |
| | Longging | 144 | 329 | 1 293 872 | 15 | 13 | 7 | - | 1 | 1 | | - | | |
| | Furniture and fixtures | 108 | 482 | 1 136 | | 3 | | | Carlos a | | 1 | | | |
| | Office furniture | (C) | (D) | (D) | 2 | 1 | - | - | - | - | 1 | | - 1 | |
| 1 | Wood office furniture | (C) | (D) | (D) | 2 | 1 | - | - | - | - | 1 | - | - 1 | |
| | Paper and allied products Paper mills | 1 155 (F) | 8 698 | 35 203 | 5 | - | 1 | - | 1 | - 100 | 1 | 1 | 1! | |
| | Misc. converted paper products | (F) | (D) (D) | (D) (D) | 2 | | - | - | | - | 1 | 1 | -1 | |
| 9 | Conveited paper products, n.e.c. | (F) | (D) | (D) | 2 | - | -! | - | - | - | 1 | 1 | - : | |
| | Printing and publishing | 318 | 1 | 4 288 | 9 | 3 | 2 | 1 | 1 | 1 | 1 | - | | |
| | Newspapers Manifold business forms | (C) | (D) | (D) | 1 | - | | - | - | - | 1 | - | - : | |
| | Chemicals and allied products | (B) (F) | (D) | (D) | | - | -1 | - | | | - | | | |
| | Drugs | (F) (F) | (D) (D) | (D) (D) | 1 | 2 | - | - | - | - | - | | 1 | |
| 4 | Pharmaceutical preparations | (F) | (D) | (D) | i | 3.1 | - | - | - | - | - | - | 1 | |
| 4 | Soap, cleaners, and toilet goods Toilet preparations | (B) (B) | (D) (D) | (D) (D) | 1 | - | - | - | | 1 | - | - | _ | |
| | Rubber and miscellaneous plastics products | 536 | 2 119 | 10 702 | 8 | - | 1 | _ | 1 | 4 | 2 | - | | |
| 59 | Fabrcated rubber products. n.e.c. | (B) | (D) | (D) | 2 | - | - | - | 1 | 1 1 | - | - | - | |
| 3 | Miscellaneous plastics products. n.e.c. | (B) (E) | (D) (D) | (D) (D) | 1 | - | - | - | - | 3 | - 2 | - | | |
| 4 9 | Plastics pipe Plastics products, n.e.c. | (C) 359 | i (D) j | (D) | 1 | - | -1 | -1 | - | - 3 | 1 | - | - 100 | |
| | Primary metal industnes | | 1 563 | 8 305 | 5 | - | | - | | | 1 | | - | |
| 2 | Iron and steel foundnes | (C) (B) | (D) | (D) (D) | 1 | | - | - | | | - | | - | |
| 1 | Gray and ductile iron foundnes | (B) | (D) | (D) | i | - | - | - | - | 1 | - | - | - : | |
| | Electronic and other electronic equipment | (C) | (D) | (D) | 4 | 2 | - | - | | - | 1 | - | - : | |
| 15 | Electric lighting and winng equipment Residential lighting fixtures | 00 | (D) (D) | (D) (D) | 2 | 1 | = =] | - | - | - | | - | - | |
| | Instruments and related products | (B) | (D) | (D) | 2 | 1 | - | - | - | 1 | - | - | - ; | |
| 42 | Medical instruments and supplies Surgical appliances and supplies | (B) (B) | (0) | (D) (D) | 2 | : | - | - | - | 1 1 | - | - | - | |
| | Administrative and auxiliary | (F) | 0 | (D) (D) | 25 | 1 | - | 1 | - | i i | 1 | 1 | - : | |
| | Transportation and public utilities | 1 421 | 8 894 | 38 286 | 112 | 56 | 18 | 23 | 8 | 5 | 2 | - | - : | |
| | Local and interurban passenger transit | (8) | - (D) | (D) | 5 | 3 | - | 1 | 1 | - | - | - | | |
| 1 | Trucking and warehousing | A CONTRACT OF A CONTRACT OF | 2 397 | 10 553 | | 39 | 13 | 10 | 2 | 1 1 | - | - | - | |
| | Trucking and couner services, except air | 419 | 2 263 | 9 908 | | 33 | 13 | 9 | 2 | 1 | - | - | | |
| | Air transportation, scheduled | | (D) | (D) | 5 | 21 | - | 2 | - | | 1 | | - | |
| | Transportation, scheduled | (C) | | (D) | 3 | - | 2 | 2 | 3 | 2 | | - | - | |
| 3 | Freight transportation arrangement | 272 | | 5 717 5 482 | | 6 | 2 | 2 | 3 | | - | - | - : | |
| | , Communication | 230 | | 7 998 | | 2 | | 7 | 2 | 2 | - | - | - | |
| 1 | Telephone communication | (C) | (D) | (D) | 7 | 1 | - | 4 | 2 | | | - | - | |
| 13 | : elephone communications, exc. radic | (C) | (0) | (D) | 7 | 1 | - | 4 | 2 | 2 | 1 - | | | |
| | Radio and television broadcasting | 153 | | 3 064 | 1 | - | - | 2 | | 1 | - | | | |
| 1 | Electric, gas, and sanitary services Electric services | the state of the s | | (D) | | - | 1 | 1 | | - | 1 1 | - | - | |
| | Note: Employment-size classes are indicated as fo | | | (D) | 1 | | | | and a second | | | | | |

72 NEW YORK

3000

333

COUNTY BUSINESS PATTERNS

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

[Excludes most government employees, railroad employees, and self-employed persons. Size class 1 to 4 includes establishments having payroli but no employees during mid-March pey period. (D) denotes figures withheid to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.]

| - | and and investigation of the methodes to | Number of | Payroll | (\$1,000) | Total | | Numi | ber of est | abliehmer | ts by em | loyment | eize clas | 18 | |
|--------------|--|---|---------------|--|-------------------------------------|---------|-----------|-------------|--|--|------------------|--|------------------|--------------|
| SIC code | Industry | employees for week including March 12 | First quarter | Annual | number of establish- ments | 1 10 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 mon |
| | ERIE-Con. | | | | | | | | | | | | and the | |
| | Manufacturing-Con. | | ing a select | | | 1.2 2.2 | 108-255 | 2 december | and the second s | the second | an esta a l | 1 | | |
| 24 242 | Lumber and wood products | | 3 116 | 14 223 | 43 | 18 | 8 | 4 | 8 | 3 | 2 | - | - 0.00 | |
| 2421 | Sewmitts and planing milts Sewmitts and planing milts, general | 177 (C) | 631 (D) | 2 962 (D) | 76 | 3 | - | ; | : | 1 | 1 | - | - | |
| 243 | Millwork, plywood and structural members | 234 | 1 039 | 4 634 | 15 | 5 | 4 | 2 | 3 | 1 | | - | - | |
| 2434 | Wood kitchen cabinets | 00 | (D) 296 | (D) 1 247 | 6 | 1 | 3 | 1 | i | - | - | - | - | |
| 244 | Wood containers Wood pallets and skids | 84 | 280 | 1 241 | 6 | 22 | - | 1 | 3 | - | And the second | - | - | |
| 249 | Miscellaneous wood products | 281 | 1 132 | 5 183 | 10 | 3 | 3 | - | 2 | 1 | 1 | - | - | |
| 2499 | Wood products, n.e.c. | 281 | 1 132 | 5 183 | 10 | 3 | 3 | - | 2 | 1 | 1 | - | - | |
| 25 | Furniture and focures | 961 | 4 553 | 19 238 | 29 | 8 | 2 | 6 | 6 | 6 | 12.26 | 1 | - | |
| 251 2511 | Household furniture Wood household furniture | 88 | 00 280 | ĝ | 8 | 2 | 1 | 2 | 2 | | - | 1 | - | |
| 2515 | Materesses and bedeprings | 108 | 290 | 1 227 | 4 | 1 | - | i | 2 | - | - | - | - | |
| 252 | Office furniture Wood office furniture | 213 | 1 222 | 3 982 | 5 | 1 | = | 1 | - | 3 | - | - | - | |
| 2522 | Omos turnaure, except wood | 09 | 66 | 8 | 4 | 1 | - | 1 | - | 2 | - | - | - | |
| 254 2541 | Partitions and fotures Wood partitions and fotures | 247 | 963 (D) | 4 458 (D) | 12 10 | 4 | 1 | . 2 | 32 | 22 | - | - | - | |
| 259 | Miscellaneous furniture and locures | | | | 3 | 1 | - | 1 | | 1 | - | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | - | |
| 2599 | Furniture and focures, n.e.c. | | 8 | 8 | 2 | 1 | - | - | - | 1 | - | - | - | |
| 26 | Paper and allied products | 1 874 | 12 725 | 52 243 | 33 | 4 | 3 | 7 | 6 | 6 | 7 | - | - | |
| 265 | Paperboard containers and boxes | 1 046 | 7 348 | 30 578 | 14 | 1 | - | 3 | 2 | 32 | 52 | - | - | |
| 855 857 | Fiber cans, drums and similar products Folding paperboard boxes | 60 | 3 606 | 14 455 | 2 | - | - | 1 | - | ī | | - | - | |
| 67 | | | 5 186 | 20 858 | 16 | 2 | 3 | 3 | 3 | 3 | 2 | - | - | |
| 672 | Misc. converted paper products Paper costed and laminated, n.e.c Bage: plastics, laminated, and costed | (8) | (D) 937 | 3 880 | 1 | | | | - | 1 | - | - | - | |
| 677 | Envelopes | 540 | 3 007 | 11 924 | 4 | - | - | i | - | i | 2 | - | - | |
| 27 | Printing and publishing | 7 233 | 42 881 | 174 274 | 219 | 78 | 44 | 47 | 27 | 15 | 4 | 1 | 1 | |
| 271 | Newspapers | 2 008 | 10 682 | 44 718 | 20 | 2 | 6 | 6 | 2 | 2 | - | 1 | - | |
| 272 | Periodicels | 237 | 693 | 2 821 | 8 | 2 | 2 | 2 | 1 | - | 1 | - | - | |
| 273 | Books | 130 (C) | 648 (D) | 2 888 (D) | 14 12 | 8 | - | 4 | 22 | : | - | - | - | |
| 74 | Miscellaneous publishing | | 0 | D | 6 | 2 | 2 | 1 | - | 1 | - | | - | |
| 75 | Commercial printing Commercial printing, lithographic | | 27 501 | 108 703 | 136 | 46 32 | 29 | 29 | 16 | 11 | 3 | - | 1 | |
| 752 | Commercial printing, gravure | 2 322 (G) (F) | 14 354 (D) | 56 265 (D) | 96 1 | 32 | 21 | 19 | 13 | 8 | 2 | - | - | i k a |
| 759 | Commercial printing, n.e.C | | 8 | 66 | 39 | 14 | 8 | 10 | 3 | 3 | 1 | - | - | - |
| 76 | Manifold business forms | 123 | 755 | 4 511 | 3 | - | - | 1 | 1 | 1 | and the second | exerci I | | |
| 789 | Blank/seoks and bookbinding Bookbinding and related work | 30 | 8 | B | 6 | 1 | 22 | - | 33 | | - | - | - | |
| 79 | Printing trade services Typesetting | 150 | 790 | 3 352 2 380 | 17 | 8 | 3 | 4 | 2 | 1. mar - | - | - | - | |
| 8 | | 117 | 577 | | 13 | 8 | 2 | 1 | 2 | | | 3 | | |
| 81 | Chemicals and allied products Industrial inorganic chemicals | 3 472 | 26 662 | 106 568 | 52 | 12 | 9 | 7 | 10 | 4 | 6 | 3 | - | |
| 819 | Industrial inorganic chemicals, n.e.c. | (F) | (0) | (D) | 6 | 1 | 1 | - | 1 | 2 | 2 | - | - | |
| 834 | Drugs Pharmaceutical preparations | 1 619 | 13 160 | 54 454 | 8 | 2 | - | - | 2 | - | 1 | 2 | 1 | |
| 835 | Diagnostic substances | Ge | 66 | 99 | 2 | - | - | - | i | - | and a state | i | - | |
| 842 | Soap, cleaners, and toilet goods Polishes and sanitation goods | 216 164 | 1 062 | 4 527 3 736 | 15 | 52 | 3 | 32 | 32 | | - | - | - | |
| 85 | Paints and allied products | 9 | (0) | 3 / 30 | 3 | - | - | 1 | - | | 1 | - | - | |
| 86 | Industrial organic chemicals | and the second state of the second state of the | | | 4 | 1 | - | - | 1 | 200 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | 1 | 1 | - | |
| 865 | Cyclic crudes and intermediates Industrial organic chemicals, n.e.c. | <u> 3</u> 86 | 999 | 999 | 1 3 | | - | - | | : | - 1 | 1 | - | |
| 89 | Miscellaneous chemical products | 338 | 2 153 | 8 200 | 10 | 2 | 2 | 3 | 2 | - | 1 | - | - | |
| 891 899 | Adhesives and sealants | Q | 8 | 8 | 35 | 2 | 1 | 1 | 1 | - | 1 | - | - | |
| | Petroleum and coal products | 367 | 2 803 | 15 322 | 15 | 5 | | 4 | 3 | 1 | 1 | - | - | |
| 95 | Asphalt paving and roofing materials | 277 | 2 232 | 12 790 | 10 | 3 | 1 | 2 | 2 | | 1 | - | - | |
| 951 | Asphalt paving motures and blocks | (E) | (0) | (0) | 9 | 3 | 1 | ī | 2 | 1 | 1 | - | - | |
| 99 992 | Misc. petroleum and coal products Lubricating oils and greases | (8) | 8 | 8 | 4 2 | 2 | - | 1 | 1 | - | - | - | - | |
| 0 | Rubber and miscellaneous plastics products | 5 379 | 37 651 | 152 808 | 59 | 13 | 5 | 11 | | | 8 | 4 | - | |
| 01 | Tires and inner tubes | (G) | (0) | (D) | 1 | - | | | - | - | - | | - | |
| 05 | Hose and betting and gaskets and packing | | (0) | State of the second | | 2 | 1 | 1 | - | | 2 | - | - | |
| 052 | Rubber and plastics hose and beiting | ପ୍ରତ୍ର | 60 | 500 | 1 | 2 | ī | 1 | - | - | 1 | - | = | |
| 06 | Fabricated rubber products, n.e.c. | Contraction of the second second | | | 7 | 2 | 1 | - | 1 | 1 | 2 | - | - | |
| 061 | Mechanical rubber goods Fabricated rubber products, n.e.c | 600 | 999 | 999 | 2 | | ī | - | - | 1 | 1 | : | = | |

Note: Employment-size classes are indicated as follows: A=0 to 19; 8=80 to 80; C=100 to 249; E=250 to 400; F=500 to 909; G=1,000 to 2,490; H=2,500 to 4,909; I=5,000 to 9,909: J=10,000 to 24,999; K=25,000 to 49,909; L=50,000 to 9,909: J=10,000 to 24,999; K=25,000 to 49,909; L=50,000 to 24,909; K=25,000 to 49,909; L=50,000 to 24,909; K=25,000 to 49,909; L=50,000 to 24,909; K=25,000 to 49,909; K=25,000 to 49,909; L=50,000 to 24,909; K=25,000 to 49,909; K=25,000 to 49,900; K=25,000 to 49,909; K=25,000 to 49,909; K=25,000 to 49,909; K=25,000 to 49,900; K=25,000; K=

COUNTY BUSINESS PATTERNS

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

[Excludes most government employees, railroad employees, and self-employed persons. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheid to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.)

| | | Number of employees | Payroli (1 | | Total _ | | T | T | 1 | ts by emp | | | | |
|----|---|---|-------------------|--|---|-----------------------|---|-----------------------------------|-------------|-------------|------------------|------------------|------------------|-----------|
| | industry | for week including March 12 | First quarter | Annual | of establish- ments | 1 to 4 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 10 999 | 1,0 mi |
| 1 | MONROE - Con. | The state | States and | | See . | | | | | | and the second | | 6.2.62 | |
| | Manufacturing-Con. | | | | | | | | | | | Sec. | auge - | |
| 1 | Food and kindred products-Con. Beverages | (G) | (D) | (D) | 8 | - | 2 | 3 | 1 | - | | 1 | 1 | |
| | Mait beverages | (F) | 00 | (D) | 1 | - | - 2 | - | - | - | - | - 1 | 1 | |
| | Bottled and canned soft drinks | (E) 57 | 237 | (D) 1 026 | | 3 | - | 2 | 1 | | and a | | - | |
| | Misc. food and kindred products | | | | | 3 | | - | | | | | _ | |
| | Textile mill products Broadwoven fabric mills, manmade | (8) | (0) | (D) (D) | | 3 | -1 | - | _ | 1 | - | | - | |
| | | (B) | (D) | | | | | 2 | - | 2 | or like | 1 | 1 | |
| 1 | Apparel and other textile products | 1 182 | 5 128 (D) | 22 992 (D) | 17 | :1 | | - | - | 1 | - | - | 1 | |
| | Men's and boys' furnishings | (F) (E) | (D) | (D) | 2 | - | 1 | - | - | - | - | 1 | - | |
| | Men's and boys' clothing, n.e.c. | iei i | iOi | (D) | ī | - | - | - | - | - | - | 1 | - | |
| | Misc. fabricated textile products | (C) | (D) | D | 11 | 8 | 2 | 2 | - | 1 | 100 | 2 | - | |
| ' | Textile bags | (8) | (D) | (D) | | - | - | | | | | | | |
| 1 | Lumber and wood products | 296 | 1 843 | 7 359 | 28 | 15 | 3 | 5 | 2 | | - | | - | |
| | Millwork, plywood and structural members Millwork | 232 | 1 547 | 5 967 2 609 | 13 | 5 | 2 | 3 | 22 | - | - | - | - | |
| | Wood kitchen cabinets | 135 | 790 | 3 358 | 9 | 4 | 2 | 2 | - | 1 | - | - | - | |
| | Furniture and foctures | 154 | 1 290 | 3 329 | 24 | 11 | 8 | 5 | - | - | - | - | - | |
| | Office furniture | 62 | 832 | 1 428 | 6 | 1 | 1 | 4 | - | - | - | - | - | |
| | Wood office furniture | 62 | 832 | 1 428 | 6 | 1 | 1 | 4 | - | - | - | | | 1 |
| | Paper and allied products | | 11 366 | 48 910 | 27 | 2 | 1 | 4 | 4 | 9 | 7 | - | - | |
| 1 | Paper mills | | (0) | (D) | 2 | 1 | - | - | - | | - | - | - | |
| | Paperboard containers and boxes Corrugated and solid fiber boxes | Ð | 6 610 (D) | 28 320 (D) | 10 | - | - | 1 | 1 | 3 | 2 | - | - | |
| | Folding paperboard boxes | (E) | 66 | ଭ | 3 | - | - | - | - | - | 3 | Inter To | - | |
| | Misc. converted paper products | F | (D) | (0) | 15 | • 1 | 1 | 3 | 32 | 5 | 2 | - | - | |
| | Paper coated and laminated, n.e.c Bags: plastics, laminated, and coated | (0) | 1 240 (D) | 4 882 (D) | 3 | - | - | i | - | 2 | - 1000 | - 112 | - | |
| 5 | Die-cut paper and board | (B) | 999 | 00 | 32 | 1 | - | 1 | - | 1 1 | 2 | - | 1 | |
| | Converted paper products, n.e.c. | E | Ö | Ø | 2 | - | - | - | 1 | 1 | - | - | - | |
| | Printing and publishing | 6 210 | 44 785 | 183 716 | 204 | 74 | 52 | 30 | 31 | 7 | 7 | - | 1 | |
| | Newspapers | | (0) | (D) | 19 | 8 | 2 | 1 | 6 | 1 | - | - | - | |
| | Periodicale | | | 2 042 | 8 | 4 | 2 | - | 2 | - | - | - | - | |
| | Books | (G) | 0 | 8 | 3 | 1 | - | - | 1 | - | - | - | - | |
| 1 | Book publishing | | (0) | | 3 | 1 | - | - | 1 | ale and | The second | - and | - | |
| | Miscellaneous publishing | | 1 489 | 6 307 | 11 | 3 | 1 | 1 | 0 | - | | | 1 | |
| 2 | Commercial printing | 2 377 | 18 126 | 73 403 40 650 | 118 | 41 28 | 34 26 | 24 | 10 | 33 | | | | |
| 0 | Commercial printing, n.e.c | (F) | (0) | · (D) | 31 | 11 | 8 | 8 | 2 | - | 1 | - | 1 | |
| | Manifold business forms | (0) | (0) | (0) | 2 | - | - | - | 1 | - | 1 | - 10 | - | • |
| | Blankbooks and bookbinding Blankbooks and locesteaf binders | 218 | 1 144 | 4 518 | 8 | 2 | 3 | - | 1 | 1 | 1 ! | - | - | |
| 2 | Blankbooks and looseleaf binders | 90 | 8 | ee ee | 1 7 | 2 | 3 | - | 1 1 | 1 1 | | | | |
| | Printing trade services | and the second se | | 9 874 | 23 | 5 | | 4 | 4 | 2 | - | - | | |
| 1 | Typeeeting | 172 | | 3 633 | 15 | 4 | 6 | 3 | 1 | 1 | - | | | |
| 6 | Platemaking services | | 1 582 | 6 241 | 8 | 1 | 2 | mania | 3 | | 1.000 | | a standy | |
| | Chemicals and allied products | 2 590 | 27 344 | 106 656 | 22 | 5 | 4 | 4 | 3 | 1 | 1 | 2 | - | |
| | Drugs | (G | | e e | | - | - | - | - | Territ. | | | | : |
| 4 | Pharmaceutical preparations | a state of the state | | | | 2 | - | | | | | | | |
| 11 | Scep, cleaners, and toilet goode | | | 21 121 | 52 | 1 1 | - | - | | | | - | - | |
| 23 | Polishes and sanitation goods | | 666 | 000 | 2 | 1 | - | - | - | | | | | - |
| 3 | | | | 0 | and the second se | | | | | | | 1 | - | |
| 15 | Industrial organic chemicale Cyclic crudes and intermediates | | 666 | 996 | 1 | - | - | - | | - | | | | : |
| 39 | industrial organic chemicals, n.e.c. | - (E | | and the second sec | the second second second | - | - | - | | | | | | |
| 2 | Miscellaneous chemical products | - (0 | 7 802 | 3 14 | | | 3 | 32 | | | | - | 1.781 | - |
| 20 | Chemical preparations, n.e.c. | | | 0 | | 2 | 1 1 | - | 1 | - | | - | | - |
| | Rubber and miscellaneous plastics products | 2 84 | 4 17 510 | 75 90 | 51 | 15 | 7 | | 13 | 3 2 | 2 1 | 3 1 | 1 | 1 |
| , | Miscellaneous plastics products, n.e.c. | 2 60 | | 74 81 | | 14 | | | 12 | 2 2 | 2 1 | | land 1 | 1 |
| 2 | Unsupported plastics profile shapes | - (0 | | (0 | 0 6 | 2 | 1 | 1 | | | | | | - |
| 9 | Plastics foam products Plastics products, n.e.c. | | | 66 | 38 | | | 3 | 1 | 1 2 | 2 | 7 . | - 1 | 1 |
| | Stone, clay, and glass products | and the second | | 18 96 | | 1 Carriel | 11 | | | | 3 | - | | - |
| 2 | the second se | See States Cardenau | | | and the bar | | e de la | 1000 | | | | | - | - |
| 9 | Glass and glassware, pressed or blown Pressed and blown glass, n.e.c. | - 0 | | | | | | Contraction of the second second | | - | 1 | - | - | - |
| 3 | Products of purchased glass | | | a second second | and the second | and the second second | | 2 1 | | 2 | - | - | | - |
| 7 | | | The second second | | | and the second of the | | | 2 | | 2 | - | - | - |
| 71 | Concrete, gypeum, and plaster producta | | | (| 2 1 | - | | | | 2 | - | - | CAR COMPANY | - |
| 72 | Concrete products, n.e.c. | 1 / | 5) (D 13 1 503 | 6 48 | | | | | | i i | 2 | - | - | - |
| 9 | Misc. nonmetallic mineral products | | 5) (0) | | | | | | -1 | 21 | -1 | -1 | -1 | -1 |
| | Note: Employment-size classes are indicated as 0,000 to 24,999; K-25,000 to 49,999; L-50,000 to | (1 | | | | | Care I and a second | Contraction of the local distance | | | | | | |

COUNTY BUSINESS PATTERNS

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

[Excludes most government employees, railroad employees, and self-employed persons. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and companishity with other data, see introductory text.]

| | | Number of | Payroli (| \$1,000) | Tgtal | () And () | Num | ber of est | abliehmer | nts by em | ployment | -eize cla | 15 | |
|---------------------|---|--|-------------------|-------------------------|-------------------------------------|--------------|-----------|-------------|-------------|-------------|------------------|------------------|------------------|---------------------|
| SIC | Industry | employees for week including March 12 | First quarter | Annuel | number of establish- ments | 1 10 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 10 249 | 250 10 499 | 500 10 999 | 1,000 or more |
| | NIAGARA-Con. | | | | | | | | | | | | and the | |
| ~ | Manufacturing-Con. | | | | | | | | | | | | na head | |
| 26 263 | Paper and allied products Paperboard mills | 1 050 (C) | 6 814 (D) | 28 244 (D) | 10 | 2 | - | - | | 3 | 3 | 1 | - | - |
| 265 2653 | Paperboard containers and boxes | 676 | 4 757 | 19 280 | 5 | 1 | - | - | - 1 | 1 | 2 | 1 | - | 1 |
| 2857 | Corrugated and solid fiber boxes Folding paperboard boxes | E E | 00 | 69 | 32 | ī | - | - | - | - | - | 1 | - | |
| 267 2679 | Misc. converted paper products Converted paper products, n.e.c | 00 | 00 | 93 | 33 | 1 | - | - | 1 | 1 | - | - | - | |
| 27 | Printing and publishing | | 2 454 | 9 135 | 33 | 16 | 6 | 1 | 5 | 3 | 2 | - 10.0 | - | rez |
| 271 275 | Newspapers Commercial printing | 299 218 | 1 042 | 2 650 | 3 | - 9 | - 6 | - | 1 | - 2 | 2 | - | - | |
| 2752 | Commercial printing, lithographic Commercial printing, n.e.c. | (C) (B) | 00 | 939 | 15 | 8 | 4 | 1 | i | 1 | - | - | - | |
| 276 | Manifold business forms | (8) | (0) | (D) | 2 | - | - | - | 1 | 1 | | | - | 10 |
| 28 | Chemicals and allied products | 3 260 | 29 397 | 120 292 | 26 | 2 | 4 | 4 | 5 | 5 | 2 | 2 | 2 | - |
| 281 2813 | Industrial inorganic chemicals Industrial gases | 93 (B) | 912 (D) | 3 442 (D) | 4 2 | 1 | - | 1 | 1 | 1 | - | - | - | 15 |
| 282 2821 | Plastics materials and synthetics Plastics materials and resins | EE EE | 00 | (0) | 5 | - | 1 | - | 2 | - | 1 | 1 | - | - |
| 286 | Industrial organic chemicals | 1 531 | 12 902 | (D) 53 117 53 117 | 8 | - | - | 1 | 2 | 3 | - | 1 | 1 | - |
| 2869 287 | Industrial organic chemicals, n.e.c. | 1 531 | 12 902 | 53 117 (D) | 8 | - | - | 1 | 2 | 3 | - | 1 | 1 | |
| 2879 | Agricultural chemicals, n.e.c. | (C) | 00 | (0) | i | - | - | - | - | - | i | - | - | |
| 289 | Miscellaneous chemical products Chemical preparations, n.e.c. | EE | 60 | 60 | 22 | - | - | - | - | 1 | - | = | 1 | |
| 29 | Petroleum and coal products | 211 | 2 153 | 8 065 | 5 | 1 | - | 1 | 1 | 2 | - 100 - | - | - | - |
| 291 | Petroleum refining | A SALES PROVIDENCE | (D) | (0) | 1 | - | - | - | - | 1 | - | - | - | |
| 299 2992 | Misc. petroleum and coal products | (B) (B) | 99 | 66 | 2 | - | - | 1 - | Ξ | ; | - | - | - | 1 |
| 0 | Rubber and miscellaneous plastics products | 791 | 3 086 | 12 802 | 18 | 7 | 1 | 1 | 2 | 3 | 4 | - | - | - |
| 105 1053 | Hose and belting and gaskets and packing Gaskets, packing, and sealing devices | (B) (B) | 8 | 66 | 1 | = | - | - | = | 1 | - | = | - | |
| 808 1089 | Miscellaneous plastics products, n.e.c | (F) 720 | (D) 2 808 | 11 343 | 15 14 | 5 4 | 1 | 1 | 22 | 22 | 4 | - | - | - |
| 12 | Stone, clay, and glass products | 1 206 | 9 707 | 39 055 | 19 | 2 | 4 | 5 | 2 | 1 | 4 | 1 | - | - |
| 27 | Concrete, gypsum, and plaster products Concrete products, n.e.c. | 160 (B) | 678 (D) 368 | 4 019 (D) | 92 | 1 | 2 | 3 | 2 | 1 | Ξ | = | - | 300 |
| 273 29 | Ready-mixed concrete | 62 1 030 | 366 8 724 | 2 079 | 4 | - | 1 | 2 | 1 | - | - | - | - | - |
| 291 | Abrasive products | 003 | 666 | 999 | 5 | i | - | 1 | - | - | 2 | 1 | - | - |
| 297 | Noncley réfractories | 1 Sectional St | | | 1 | - | - | - | - | - | 1 | - | - | 1975 |
| 13 131 | Primary metal industries | 738 359 | 5 874 2 946 | 22 529 11 484 | 12 | 1 | 1 | 1 | 1 | 6 | 2 | - | - | - |
| 312 313 | Blast furnaces and steel mills Electrometallurgical products | (B) (E) | ee | <u>B</u> | 1 2 | - | - | - | - | 1 | 2 | - | - | - |
| 32 321 | Iron and steel foundries Gray and ductile iron foundries | 00 | 8 | 60 | 3 | - | - | ! | 1 | 1 | - | - | - | : |
| 33 | Primary nonferrous metals | (B) (B) | 00 | 00 | 1 | - | - | - | - | 1 | - | - | - | - |
| 1339 134 | Primary nonferrous metals, n.e.c. | (B) (B) | (O) (O) | (D) (D) | 1 | - | - | - | - | 1 | - | - | - | - |
| 36 | Nonferrous foundries (castings) | (8) | 00 | (D) | 1 | - | - | - | - | 1 | - | - | - | - |
| 365 39 | Aluminum toundries | | (D) (D) | (D) (D) | 1 | - | - | - | | 1 | - | - | - | - 11 |
| 399 | Primary metal products, n.e.c. | (B) (B) | (D) | ĐĐ | ī | - | - | - | - | i | - | - | - | enter. |
| 4 | Fabricated metal products | 1 361 (B) | 8 181 (D) | 36 482 (D) | 37 | 8 | 4 | 9 | 9 | 3 | 3 | 1 | - | - 100 |
| 425 | Sew blades and handsaws | (B) 187 | (D) 1 057 | (0) | 3 | - | 1 | - | 2 | - | - | - | - | - |
| 441 | Fabricated structural metal Fabricated plate work (boiler shops) | (B) 123 | (D) 659 | 5 700 (D) 4 094 | 11 4 5 | 1 | | 1 | 32 | | - | - | - | - |
| 46 | Metal forgings and stampings | 61 61 | 276 | 1 114 | 4 | - | ; | 2 | : | - | - | - | - | |
| 47 | Metal services, n.e.c. | 381 | 2 222 | 9 956 | 8 | 1 | 1 | 2 | 1 | 1 | 2 | - | - | : |
| 479 | Plating and polishing Metal coating and allied services | (E) (B) | 00 | 60 | 53 | ī | - | 1 | 1 | ī | 2 - | = | | 140- |
| 349 3491 3496 | Misc: fabricated metal products Industrial valves | · • | 00 | 00 | 82 | 3 | : | 2 | - | 1 | 1 | 1 | = | - |
| 3499 | Misc. fabricated wire products Fabricated metal products, n.e.c. | | 999 | 999 | 1 3 | = | : | 2 | - | 1 | ī | | = | - |

Note: Employment-size classes are indicated as follows: A-0 to 19; B-20 to 99; C-100 to 246; E-250 to 486; F-500 to 999; G-1,000 to 2,499; H-2,500 to 4,996; I-5,000 to 2,996; J-10,000 to 24,999; K-25,000 to 49,996; L-50,000 to 99,999; M-100,000 or more.

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COUNTY BUSINESS PATTERNS

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

[Excludes most government employees, nalroad employees, and self-employed persons. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.]

| | | Number of | Payroll (| \$1,000) | Total | | | per of est | | | | | | |
|----------------------|--|---|---|---------------------|-------------------------------------|------|-----------|-------------|-------------|-------------|------------------|------------------|------------------|---------------------|
| SIC | Industry | for week including March 12 | First quarter | Annual | number of establish- ments | 1 10 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or more |
| | ONEIDA-Con. | | | | | | | | | | . sest | - 620 | 000.0944 | |
| | Manufacturing | 18 060 | 121 782 | 481 979 | 285 | 102 | 48 | 40 | 38 | 22 | 17 | 12 | 4 | 2 |
| 20 201 | Food and kindred products | 549 | 2 833 | 11 093 | 31 | 16 | 4 | 4 | . 3 | 2 | 2 | | - | 100 |
| 2011 | Meet packing plants | (C) | (D) | (0) | 04 | 2 | 1 | - | - | - | 1 | - | - | - |
| 202 2024 2026 | Dairy products los cream and irozen desserts | 170 (B) | 1 251 (D) (D) | 5 163 (D) (D) | 82 | 3 - | 1 | 1 | 22 | 1 | - | - | - | - |
| 205 | Fluid milk Bakery products | (C) 94 | (0) 263 | (D) | 5 | 3 | 1 | - 2 | - | 1 | | | - | |
| 2051 208 | Bakery products Bread, cake, and related products Beverages | | (D) | (D) | 5 | 2 | - | 2 | - | i | - | - | - | - |
| 2082 | Malt beverages | 30 | 99 | 99 | | - | - | - | | - (Parents | | | - | - |
| 22 | Textile mill products | (E) | (0) | (0) | 4 | 1 | - | - | 2 | - 10.00 | 1 | - | - | 1.2.4- |
| 229 2296 | Miscellaneous textile goods | 33 | 00 | 99 | 2 | 1 | - | - | 1 | | 1. | - | = | 1 |
| 23 | Apparel and other textile products | | 2 222 | 9 937 | 8 | 2 | 2 | 1 | - | 1 | 1000 | 2 | _ | antes Brazi |
| 231 | Men's and boys' suits and costs | (E) | (0) | (0) | 1 | - | NB 6 . | - | | | | 1 | - ware | |
| 239 2390 | Misc. fabricated textile products | ee ee | 69 | 69 | 52 | 2 | 1 | - | : | 1 | - | 1 | - | |
| 24 | Lumber and wood products | 348 | 1.484 | 7 061 | 26 | 14 | 4 | 4 | 2 | 1 | 1 | - | - | 1955 |
| 242 2421 | Sewmills and planing mills Sewmills and planing mills, general | (8) | 69 | 89 | 6 | 3 | 2 | - | - | 1 | - | - | etenad. | 25 |
| 243 | Millwork, plywood and structural members | 91 | 455 | 2 230 | 5 | 2 | - | 1 | 2 | | | | | |
| 245 2451 | Wood buildings and mobile homes Mobile homes | 80 | 93 | 8 | 2 | 1 | - | - | | - | 1 | | (Angl) - | |
| 25 | Furniture and focures | 767 | 3 784 | 15 761 | | 3 | 1 | 1 | 2 | Lines in | | 1 | | 1 |
| 251 2511 | Household furniture Wood household furniture | (F) | (0) | (0) | 6 | 3 | - 1 | 1 | - 10.0 | - | 1 | 1 | - | 1 201 |
| 26 | Paper and alled products | (F) 428 | (D) 2 571 | (D) 10 217 | 5 | 2 | - | 1 | | - | 1 | 1 | - | - |
| 265 | Paperboard containers and hoves | 88 | | | 3 | | 1 | - | | 2 | | - | | are. |
| 27 | Corrugated and solid fiber boxes | and the second se | 8 | 66 | 3 | - | - | - | - | 2 | 1 | - | - | - |
| 271 | Newspapers | 1 395 | 5 463 | 23 961 | 45 | 15 | 14 | 6 | 2 | 4 | 2 | 2 | .0000 | |
| 273 | Books Book printing | 00 | | (C) | 2 | | 1 | - | - | - | 1 | - | | |
| 275 | Commercial printing | (C) 419 | (D) 2 424 | (D) 10 370 | 1 | | - | - | - | - | 1 | - | - | |
| 2752 2759 | Commercial printing | 257 | 1 421 | 6 368 | 25 | 5 3 | 7 | 22 | - | 21 | - | - | - Sugar | |
| 279 | Printing trade services Typesetting | | Ð | (0) | 5 | 2 | - | 2 | 1 | - | - | - | - | |
| 28 | Chemicals and allied products | (8) | (0) 285 | (D) | 5 | 2 | - | 2 | 1 | | - | 10000 - 10 | Service. | |
| 287 | Agricultural chemicals | (B) | (0) | 1 385 (D) | 1 | 1 | 1 | - | | | | - | | 5 |
| 30 | Agricultural chemicals, n.e.c. | (B) | (D) | (D) | 1 | • | - | - | - | 1 | - | - | - | 1.15 |
| 308 | Miscellaneous plastics products, n.e.c. | 123 | 478 | 2 086 | 7 | 3 | 1 | 1 | 2 | | 1 mm - | | 10005 | |
| 3089 | Plesses products, n.e.c. | (B) | (0) | (0) | 4 | i | i | i | 1 | - | - | - | - | |
| 32 327 | Stone, clay, and glass products Concrete, gypeum, and plaster products | | 1 233 | 6 275 | 16 | 5 | 4 | 3 | 3 | 1 | - | - | term | - |
| 3272 3273 | Concrete products, n.e.c. | | 00 | 2 773 | 11 6 5 | 22 | 22 | 21 | 312 | - | - 1000 | - | | 1 |
| 329 3291 | Misc. nonmetallic mineral products | (8) | 60 | 00 | 3 | | - | - | - | 1 | - | - | - | 1 |
| 33 | Abrasive products | | | | 1 | - | - | | - | 1 | 1000 T | - | - | - |
| 331 | Right furness and basis start and | 1 2 GA | 23 034 (D) | 89 400 (D) | 17 | 2 | 3 | 1 | 1 | 3 | 3 | 1 | 3 | |
| 3312 3315 3316 | Steel wire and minted and steel mints | (B) | 99 | 999(| 2 | i | - | - | | 1 | - | - | - | 1.85 |
| 334 | Cold finishing of steel shapes | (C) | (D) | | 135 | - | - 2.21 | - | - | - | 1 | - | - | |
| 335 | Noniemous colling and doub | 2 250 | (D) 18 138 | (D) 68 964 | | - | - | | 1 | 1 | - | 1 | 3 | - |
| 3358 | Copper rolling and drawing | E BB | 999 | 999 | | - | - | - | 1 | - | - | ī | 1 | |
| 339 | Miscellaneous primery metal and the | (G) | | | 4 | 1 | - | - | 1 | 1 | - | - | 2 | |
| 3399 34 | rinney mean products, n.e.C. | DE | 8 | 66 | 2 | - | - | - | - | - | 1 1 | - | - | - |
| 342 | Fabricated metal products | | 1 895 | 8 345 | 16 | 4 | 3 | . 4 | 3 | 2 | - | - | - | - |
| 3421 | Course y and a second | (B) (B) | - BB | g | 1 | : | - | | | 1 | - | - | - 100 | |
| 3433 | Plumbing and heating, except electric | (8) | 8 | 8 | : | : | - | - | : | 4 | - | - | - | |
| 344 | Fabricated structural metal products | 103 | A CONTRACT OF | 2 180 | | 2 | | 3 | 1 | - 1 | - 1 | - 1 | - | - |

Note: Employment-size classes are indicated as follows: A-0 to 19; 8-20 to 99; C-100 to 249; E-250 to 499; F-500 to 999; G-1,000 to 2,499; H-2,500 to 4,999; I-5,000 to 9,999; J-10,000 to 24,999; K-25,000 to 99,999; M-100,000 or more.

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COUNTY BUSINESS PATTERNS

Table 2. Counties-Employees, Payroll, and Establishments, by Industry: 1991-Con.

(Excludes most government employees, railroad employees, and self-employed persons. Size cleas 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to evoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.)

| | enoise figures withheld to evoid disclosing data for inc | Number of | Payroll (| | Total | | | | | its by emp | | -size clas | 8 | |
|--------------|---|--|---------------------|------------------|-------------------------------------|---------------------------------------|---------------------------|-------------|-------------|--------------|------------------|-----------------------|------------------|-----------------|
| SIC | Industry | employees for week including March 12 | First quarter | Annuel | number of establish- ments | 1 10 | 5 10 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 more |
| | OHONDAGA-Con. | | | | | | | | | | | | escale | |
| | Menutacturing-Con. | | 1.400 | 5 456 | 18 | | 3 | 2 | 2 | 2 | | - | - | |
| 24 244 | Lumber and wood products | 296 165 | 1 462 | 3 285 | 4 | 1 | - | 1 | | 22 | - | - | Ξ | |
| 2448 | Wood pallets and skids Miscellaneous wood products | 165 (8) | 948 (D) | 3 285 (D) | 4 | 1 | 2 | - | 1 | - | | - | - | |
| 2499 | Wood products, n.e.c. | (8) | D | Ő | 4 | 1 | 2 | - | 1 | - | - | | 100 | |
| 25 | Furniture and focures | 135 | 550 | 1 908 | 9 | 3 | 2 | 1 | 3 2 | - | - | - | - | |
| 251 2515 | Household furniture Mattresses and bedaprings | (8) | 60 | 99 | 2 | - | - | - | 2 | - | | - | - | 1.180 |
| 26 | Paper and alled products | | 5 386 | 23 515 | 17 | 1 | - | 6 | 6 | | 3 | 1 | - | |
| 265 2652 | Paperboard containers and boxes | (8) | 2 043 (D) | 10 053 (D) | 10 2 | - | - | 2 | 2 | - | -2 | - | - | |
| 2653 2657 | Corrugated and solid fiber boxes | 256 (B) | 1 424 (D) | 7 556 (D) | 2 | - | - | ĩ | 1 | - | - | - | and I | 1 25 |
| 267 2675 | Misc. converted paper products Die-cut paper and board | 909 | 999 | 00 | 53 | 1 | - | 1 | 1 | - | - | i | - | |
| 2078 | Stationery products | | | (D) | 2 | - | - | - | 15 | 9 | | 2 | 1 | |
| 27 271 | Printing and publishing | 3 200 (F) | 18 556 (D) | 77 181 | 116 | 45 6 | 24 1 | 16 1 | 2 | 1 | - | - | 1 | 1.02 |
| 273 | Books | 30 | (0) | (D) | 4 | 22 | - | 100- | 1 | : | 1 | - | - | |
| 2731 | Book publishing Miscellaneous publishing | 0 | (0) (0) | (O) (D) | 8 | 6 | - | 1 | - | - | 1 | - 111 | - | |
| 275 | Commercial printing | 1 301 | 7 273 | 29 313 24 568 | 64 47 | 18 12 | 16 11 | 10 7 | 11 9 | 7 6 | 22 | - | | 1.000 |
| 2752 | Commercial printing, lithographic Commercial printing, n.e.c | 1 093 208 | 6 193 1 080 | 4 745 | 17 | 6 | 5 | 3 | 2 | 1 | | 2 | | 1 220 |
| 278 | Blankbooks and bookbinding Blankbooks and looseleer binders Bookbinding and related work | 69 | 666 | 66 | 73 | 1 | 1 | - | | - | - | 2 | : | 1 1 200 |
| 2789 | | (B) 102 | (D) 602 | (D) 2 738 | 10 | 5 | 2 | 2 | - | 1 | - | 100- | - | 1 |
| 2791 | Printing trade services | (8) | (0) | (D) | 8 | | 2 | 1 | - | | 2 | | 1 | |
| 28 | Chemicals and allied products | | 13 565 676 | 55 362 | 18 | 4 | 6 | 2 | 1 | - | - | - | - | |
| 281 | Industrial inorganic chemicals Industrial inorganic chemicals, n.e.c | (B) | (0) | (0) | 4 | i | 1 | 1 | 1 | - | - | 1 - | 1 | |
| 283 2833 | Drugs Medicinels and botanicals | 9 6 0 | 333 | 996 | 5 | - | 2 | - | - | i | 1 | : | ī | |
| 2834 | Pharmaceutical preparations Scep, cleaners, and tollet goods | | | | 3 | 1 | - | - | - | - | 1 | - | - | 1 |
| 284 2841 | Soap and other detergents | 1 10 | 8 | 00 | 2 | 1 | - | - | - | - | - | - | - | |
| 285 | Paints and allied products | (B) 56 | (D) 595 | (D) 2 532 | 5 | 2 | | 1 | 1 | - | - | - | - | |
| 29 295 | Petroleum and coal products Asphalt paving and roofing materials | 56 | 595 | 2 532 | 5 | 2 | 1 | 1 | 1 | - | : | - | - | |
| 2951 | Asphalt paving mixtures and blocks | 56 | 595 | 2 532 | 5 | 2 | | | 5 | 3 | 1 | 1 | - | |
| 90 908 | Rubber and miscellaneous plastics products | and the second second second | 4 748 (D) | 19 236 (D) | 15 | 2 | - | 4 | 4 | 3 | 1 | 1 | : | |
| 9069 | Plastics products, n.e.c. | 821 | 4 191 | 17 180 | 12 | - | - | | 3 | 2 | | - | 1 | |
| 32 326 | Stone, clay, and glass products | 822 | 4 392 (D) | 20 386 (D) | 10 | 1 | - | - | 1 | | - | - | 1 | |
| 3262 | Vitreous china table and kitchenware | | (0) | 99 | 1 | - | - | - | | 2 | - | - | and the | |
| 327 3273 | Concrete, gypeum, and plaster products Ready-mixed concrete | 00 | 66 | 66 | 2 | - | - | - | 1.191- | 1 | | | 1 | 1.45 |
| 33 | Primary metal industries | | 14 883 | 54 558 | 16 | 1 | And the second | - | 5 | 3 | - | | 1 | |
| 331 3312 | Blast furnace and basic steel products Blast furnaces and steel milts | | 66 | DO DO | 1 | - | - | - | | i same | - | | 1 | |
| 332 3322 | Iron and steel foundries | 00 | 00 | 00 | 1 | = | | - | | | i | - | - | 1 million |
| 334 | Secondary nonferrous metals | (0) | (0) | (0) | 1 | - | a chair and | - | - and a | | 1 | 1 | - | 1 |
| 335 3357 | Nonferrous rolling and drawing | E | 99 | 00 | 22 | | Contraction of the second | - | - | | - | 1 | - | |
| 336 | Nonferrous foundries (castings) | 406 | 2 294 | 9 985 | | - | 2 | - | 3 | | | - | 1000 | A CONTRACTOR OF |
| 3363 3365 | Aluminum die-castings |) କ୍ର | 66 | ĐĐ | | | | a maria | 1 | a management | | | | 1 2 323 |
| 34 | Fabricated metal products | | | 94 049 | 59 | 14 | | 8 | 14 | | 1 | - | - | - |
| 342 3421 | Cutiery, handtools, and hardware Cutiery | (0) | 000 | 999 | 1 | - | - | - | 1 | | 1 | - | - | |
| 3429 | Hardware, n.e.c | 503 | 4 419 | 17 561 | 21 | 10000000000 | | 3 | | | - | - | - | |
| 3441 | Fabricated structural metal Fabricated plate work (boiler shope) | 330 | 2 387 (D) (D) | 9 007 (D) | | 1 | 2 | - | | | | : : | - | |
| 3444 | Sheet metalwork | | (D) 1 710 | (D) 8 282 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 | 2 | | | 1 | | - | |
| 345 3451 | Screw machine products, bolts, etc | | 1 ee | 90 | | 1 | - | 1 | | | | | | |
| 3452 347 | Bolts, nuts, rivets, and washers | | | 7 674 | State of the second second | | | | | | | And the second second | | |
| 3471 | Plating and polishing | (E) | (0) | 0 | 5 | 1 | 2 | 2 | - | | | | | |
| 349 | Micc. fabricated metal products Fabricated metal products, n.e.c Note: Employment-size classes are indicated as | 96 | 543 | 2 200 | | 1 | | 1 1 | 1 | 21 . | | -1 - | | |

Note: Employment-size classes are indicated as follows: A-0 to 19; 8-20 to 99; C-100 to 249; E-250 to 499; F-600 to 999; G-1,000 to 2,499; H-2,500 to 4,999; L-50,000 to 9,999; J-100,000 to 24,999; K-25,000 to 49,999; L-50,000 to 99,699; M-100,000 or more.

An Almanac of Industry, Technology and Services

Section 6: Appendices

Appendix C

U.S. Industrial Outlook 1994

148 NEW YORK

COUNTY ELEMENTS PARTICIPATION

Table 2. Counting - Employees, Payrel, and Establishments, by manastry. 1981-200.

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| A second s | | | | | | | |
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An Almanac of Industry, Technology and Services

CLARKSON DANCH

FEB 2 8 1994

35th ANNUAL EDITION

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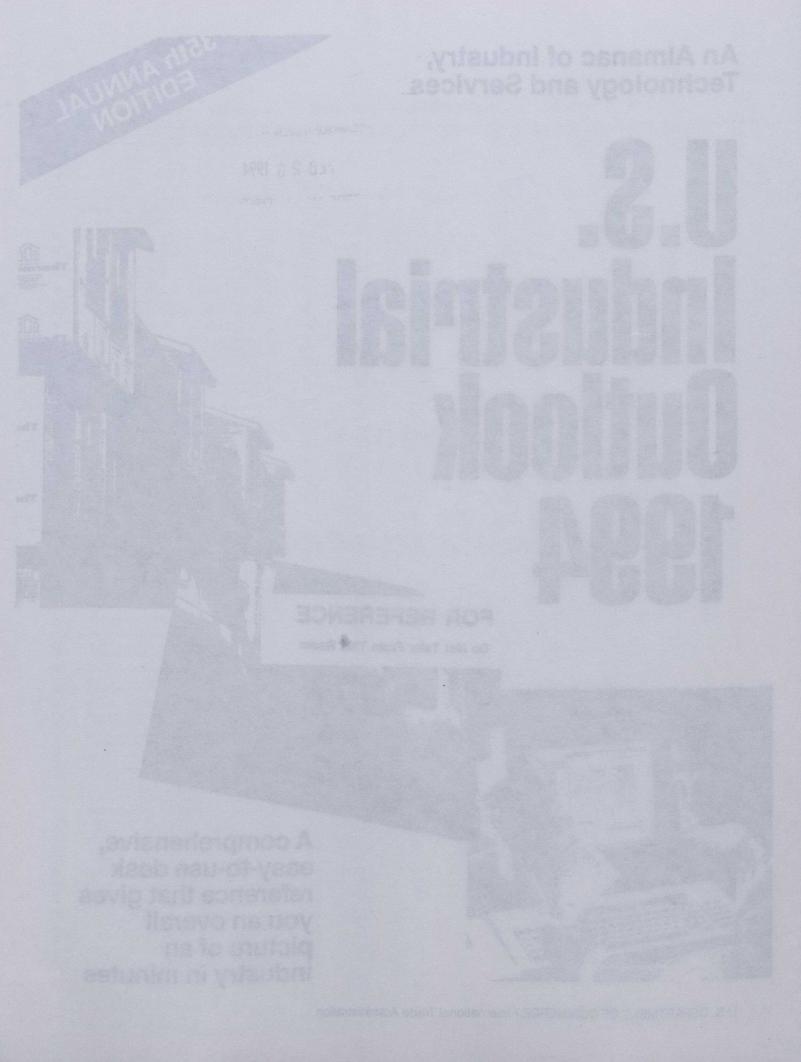
U.S. Industria Dutlook 1994

FOR REFERENCE

Do Not Take From This Room

A comprehensive, easy-to-use desk reference that gives you an overall picture of an industry in minutes

U.S. DEPARTMENT OF COMMERCE / International Trade Administration



Printing and Publishing

An improved economy, coupled with gains in advertising expenditures, should raise shipments of the U.S. printing and publishing industry to \$177 billion in 1994, an increase of nearly 2 percent over 1993 in constant dollars.

he U.S. printing and publishing industry, with approximately 60,000 firms and between 1 million and 2 million employees, remains shadowed by the aftereffects of the 1990-91 recession. With two-thirds of the industry's shipments tied to advertising, a buoyant economy is required to end the gradual erosion of the print media's share of total U.S. advertising expenditures. Rising levels of business and consumer confidence should expand advertising budgets in 1994, and increase the number of advertising pages in the nation's newspapers and magazines.

Before reading this chapter, please see "Getting the Most Out of Outlook '94" on page 1. It will answer questions you may

have concerning data collection procedures, factors affecting trade data, forecasting methodology, the use of constant dollars, the difference between industry and product data, sources and references, and the Standard Industrial Classification (SIC) system. For a discussion of topics related to this chapter, see chapters 10 (Paper and Allied Products), 25 (Information Services), 29 (Telecommunications Services), 34 (Other Consumer Nondurables), 36 (Household Consumer Durables), 37 (Personal Consumer Durables), and 39 (Retailing).

Printers and publishers serve the nation's communication needs, supplying an array of printed products ranging from almanacs to yearbooks. The industry's cost pressures have led to product specialization in an effort to achieve economies of scale. The 1990-91 recession had a severe impact on industry investment, with estimated 1992-93 capital expenditures 10 to 15 percent below the 1990 peak of \$5.8 billion. Capital investment programs focus on increasing plant efficiencies, and have resulted in lowering the ratio of production workers to total employment to 53 percent in 1993 from 65 percent in 1973.

| Trends and | Forecasts: | Printing | and Publishing | (SIC 27) |
|-------------------|--------------|----------------|----------------|----------------|
| | (in millions | of dollars exc | ept as noted) | And the second |

| | | | | | | | | | | Perce | nt Chang | e (1989 | -1994) | |
|---------------------------------|---------------|-----------|---------------|----------|---------|--------------------|-----------|---------|-----------|---------|--------------|---------|---------|------|
| item | 1987 | 1988 | 1989 | 1990 | 1991 | 19921 | 19931 | 19942 | 88-89 | 89-90 | 90-91 | 91-92 | 92-93 | 93-9 |
| Industry Data | Hill Constant | The state | in the second | AS BUTCH | | Contraction of the | lanes and | - | Section 2 | - antes | a the branch | areau. | Souther | 1000 |
| Value of shipments ³ | 136,196 | 143,907 | 149,912 | 157,060 | 156,685 | 159.503 | 166.194 | 176.638 | 4.2 | 4.8 | -0.2 | 1.8 | 4.2 | 6.3 |
| 2711 Newspapers | 31,850 | 32,927 | 34,146 | 34,642 | 33,702 | 34.545 | 35.892 | 37.830 | 3.7 | 1.5 | -2.7 | 2.5 | 3.9 | 5.4 |
| 2721 Periodicals | 17,329 | 18,612 | 19,787 | 20,397 | 20.345 | 21.667 | 22,772 | 24.368 | 6.3 | 3.1 | -0.3 | 6.5 | 5.1 | 7.0 |
| 2731 Book publishing | 12,620 | 13,571 | 14,074 | 15,318 | 16,596 | 17.425 | 18,730 | 20.320 | 3.7 | 8.8 | 8.3 | 5.0 | 7.5 | 8.5 |
| 2732 Book printing | 3,256 | 3,566 | 3,839 | 4,132 | 4,140 | 4,235 | 4,435 | 4,700 | 7.7 | 7.6 | 0.2 | 23 | 4.7 | 6.0 |
| 2741 Misc publishing | 7,810 | 8,154 | 8,021 | 8,875 | 9,762 | 10,395 | 11,175 | 12,290 | -1.6 | 10.6 | 10.0 | 6.5 | 7.5 | 10.0 |
| 275 Commercial printing | 44.786 | 47,460 | 50.312 | 52,904 | 51,948 | 51,115 | 52,595 | 55,800 | 6.0 | 5.2 | -1.8 | -1.6 | 2.9 | 6.1 |
| 2761 Manifold business forms | 7.397 | 7,781 | 7,553 | 7.808 | 7.234 | 6.872 | 6,735 | 6.668 | -2.9 | 3.4 | -7.4 | -5.0 | -2.0 | -1.0 |
| 2771 Greeting cards | 2,911 | 3.082 | 3,449 | 3,721 | 3,810 | 4.069 | 4,435 | 4,834 | 11.9 | 7.9 | 24 | 6.8 | 9.0 | 9.0 |
| 2782 Blankbooks & binders | 2,904 | 3,058 | 3,058 | 3,186 | 3.243 | 3,325 | 3.475 | 3.665 | 0.0 | 4.2 | 1.8 | 25 | 4.5 | 5.5 |
| 2789 Bookbinding | 1,176 | 1.218 | 1.240 | 1,363 | 1.328 | 1,305 | 1.325 | 1,360 | 1.8 | 9.9 | -2.6 | -1.7 | 1.5 | 2.6 |
| 2791 Typesetting | 1,784 | 1,920 | 1,776 | 1,957 | 1,813 | 1,725 | 1,680 | 1,685 | -7.5 | 10.2 | -7.4 | -4.9 | -2.6 | 0.3 |
| 2796 Platernaking services | 2,373 | 2,559 | 2.657 | 2,758 | 2,764 | 2,825 | 2,945 | 3,120 | 3.8 | 3.8 | 0.2 | 22 | 4.2 | 5.9 |
| Value of shipments (1987\$) | 136,196 | 136.941 | 135.281 | 136.044 | 130.577 | 129,508 | 130.880 | 133.378 | -1.2 | 0.6 | -4.0 | -0.8 | 1.1 | 1.9 |
| 2711 Newspapers | 31.850 | 30,859 | 30.031 | 28.653 | 26,126 | 25.348 | 25,196 | 25.221 | -2.7 | -4.6 | -8.8 | -3.0 | -0.6 | 0.1 |
| 2721 Periodicals | 17.329 | 17,525 | 17,449 | 16.815 | 15.735 | 16.018 | 16,194 | 16.517 | -0.4 | -3.6 | -6.4 | 1.8 | 1.1 | 2.0 |
| 2731 Book publishing | 12,620 | 12,803 | 12,455 | 12,872 | 13,341 | 13,675 | 14.085 | 14.610 | -2.7 | 3.3 | 3.6 | 25 | 3.0 | 3.7 |
| 2732 Book printing | 3.256 | 3,409 | 3,480 | 3.647 | 3.594 | 3.540 | 3.610 | 3,720 | 21 | 4.8 | -1.5 | -1.5 | 2.0 | 3.0 |
| 2741 Misc publishing | 7,810 | 7.707 | 7,246 | 7,670 | 7.975 | 8,195 | 8,500 | 8,840 | -6.0 | 5.9 | 4.0 | 2.8 | 3.7 | 4.0 |
| 275 Commercial printing | 44.786 | 46.065 | 46.653 | 47,782 | 46,129 | 45,437 | 46.376 | 47.651 | 1.3 | 2.4 | -3.5 | -1.5 | 2.1 | 2.7 |
| 2761 Manifold business forms | 7,397 | 7.218 | 6,726 | 6,971 | 6.470 | 6.224 | 5.775 | 5,486 | -6.8 | 3.6 | -7.2 | -3.8 | -7.2 | -5.0 |
| 2771 Greeting cards | 2.911 | 2,885 | 3,136 | 3,241 | 3.151 | 3,176 | 3.214 | 3,278 | 8.7 | 3.3 | -2.8 | 0.8 | 1.2 | 2.0 |
| 2782 Blankbooks & binders | 2,904 | 2,929 | 2,716 | 2.714 | 2.609 | 2.555 | 2,595 | 2,645 | -7.3 | -0.1 | -3.9 | -2.1 | 1.6 | 1.9 |
| 2789 Bookbinding | 1,176 | 1,175 | 1,155 | 1.241 | 1.181 | 1,145 | 1,135 | 1,140 | -1.7 | 7.4 | -4.8 | -3.0 | -0.9 | 0.4 |
| 2791 Typesetting | 1.784 | 1.864 | 1.675 | 1,831 | 1,666 | 1,555 | 1,495 | 1,470 | -10.1 | 9.3 | -9.0 | -6.7 | -3.9 | -1.7 |
| 2796 Platemaking services | 2,373 | 2,501 | 2,559 | 2,607 | 2,600 | 2,640 | 2,705 | 2,800 | 2.3 | 1.9 | -0.3 | 1.5 | 2.5 | 3.5 |

alue of all products and services sold by establishments in the printing and pub-

SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration (ITA). Estimates and forecasts by ITA.

Demand for printed products is determined by a number of factors, including general economic activity, disposable personal income, advertising expenditures, business formations and transactions, and appropriations for schools, libraries and institutions. The United States is the world's largest market for printed products and a favorable set of demographic factors over the period 1993–98 should reinforce this preeminent position. The U.S. population should reach 270 million in 1998, an increase of more than 12 million over 1993. The number of U.S. households should expand to 101 million in 1998, a gain of almost 5 million from 1993. School enrollments—elementary, secondary and college—should expand by close to 5 million, to 68 million in 1998, from 63 million in 1993.

Growing competition from the electronic media and a squeeze on leisure time are forcing U.S. printers and publishers to reappraise their traditional markets. Printed products originally issued as books, directories, newsletters, and reference materials increasingly appear in the form of audio books, laser disks, compact disks, software, facsimile, and on-line information. To date, these electronic products supplement rather than supplant demand for printed products, but inroads by these electronic media should become more evident by the close of the decade. Gains by the electronic media are well perceived by leading U.S. printers, several of whom have established facilities to produce electronic materials such as compact disks for their publishing customers.

ENVIRONMENTAL PROFILE

Meeting environmental challenges is affecting the cost structures of both printers and publishers. Printers' concerns with toxins, carcinogens, and volatile organic compounds (VOCs) have led to increased use of alcohol-free fountain solutions, water-based inks, and solvent-less developers and finishers. More use of recycled paper and greater care in the disposal of materials now classified as hazardous result in higher printing production costs. Publishers' environmental issues center on the nation's dwindling space for landfills. Greater use of recycled paper throughout the printed product spectrum, coupled with growing legislative efforts to separate more printed products for recycling purposes from the stream of consumer waste, add to publishers' costs.

INTERNATIONAL COMPETITIVENESS

Since the United States is the world's largest market for printed products, most U.S. printers and publishers have at best a peripheral interest in international trade. Yet the United States is the second largest exporter of printed products (exceeded only by Germany), with 1993 shipments of slightly more than \$4 billion. Major markets for U.S. printed product exports are Canada, the United Kingdom, Japan, and Mexico, with combined purchases accounting for two-thirds of the total. Approximately 60 percent of U.S. printed product exports consist of books and periodicals, but a wide variety of other items, including greeting cards, catalogs, labels, posters, decals, playing cards, calendars, and other trade advertising materials contribute to export markets totaling \$1.6 billion in 1993.

Imports of printed products reached \$2.2 billion in 1993, with combined shipments from Canada, the United Kingdom, Hong Kong, and Germany representing approximately 54 percent of the total. Shipments of books constituted 46 percent of all U.S. printed product imports in 1993, with some U.S.

U.S. Trade Patterns in 1992 Printing and Publishing SIC 27

(in millions of dollars, percent)

| Ехро | rts | | Imports | |
|-----------------------|-------|------------|------------------------|-------|
| | Value | Share | Value | Share |
| Canada and Mexico | 1,940 | 50.6 | Canada and Mexico 473 | |
| European Community | 794 | 20.7 | European Community 695 | 33.2 |
| Japan | 295 | 7.7 | Japan 173 | 8.3 |
| East Asia NICs | 203 | 5.3 | East Asia NICs 633 | 30.2 |
| South America | 94 | 2.4 | South America 32 | 1.5 |
| Other | 507 | 13.2 | Other 87 | 4.1 |
| World Total | 3,833 | 100.0 | World Total 2,093 | |
| | T | op Five Co | ountries | |
| And the second second | Value | Share | Value | Share |
| Canada | 1.721 | 44.9 | Canada 396 | 18.9 |
| United Kingdom | 408 | 10.6 | United Kingdom 302 | |
| Japan | 295 | 7.7 | Hong Kong 251 | |
| Mexico | 219 | 5.7 | Japan 173 | |
| | 187 | 4.9 | Singapore 120 | |

See "Getting the Most Out of Outlook '94" for definitions of the country groupings. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration.

publishers contracting with Pacific Rim or Mediterranean suppliers who offer attractive pricing.

The next five years should provide significant opportunities for those U.S. printers and publishers seeking an international presence. Successful conclusion of the North American Free Trade Agreement (NAFTA) and the Uruguay Round of the General Agreement on Tariffs and Trade (GATT) will reduce or eliminate trade barriers to exports of U.S. printed products and strengthen protection of international copyrights. By addressing the information requirements of global markets—and assisted by the dominance of English as the world's language of commerce and the professions—the U.S. printing and publishing industry should dominate in providing information services to an increasingly international clientele.—William S. Lofquist, Office of Consumer Goods (202) 482–0379, September 1993.

NEWSPAPERS

Although newspaper industry receipts continued to show a loss in constant-dollar terms in 1993, they fell at a slower rate than in the past five years, declining less than 1 percent from 1992. Receipts totaled about \$35.9 billion.

First-quarter 1993 newspaper advertising was on a strong upward swing, but slowed by the second quarter. For the year, newspaper advertising revenues were expected to show a gain of 3 to 4 percent, coupled with a slight loss in advertising pages. Still uncertain about the economy and their employment prospects, consumers spent more cautiously in 1993. With local retail markets soft in many areas of the country, businesses, especially large retail chains and supermarkets, held back on their advertising. In addition, newspapers' classified advertising (employment, real estate, and auto) recovered at a slower pace in 1993 than newspaper publishers anticipated earlier in the year. While both local retail and classified newspaper advertising receipts showed some gain in 1993, national advertising receipts continued to drop.

Circulation revenue gains were largely due to increases in newsstand and subscription prices. Total newspaper circulation remained nearly flat in 1993, although morning and Sunday circulation gained slightly as evening circulation continued to decline.

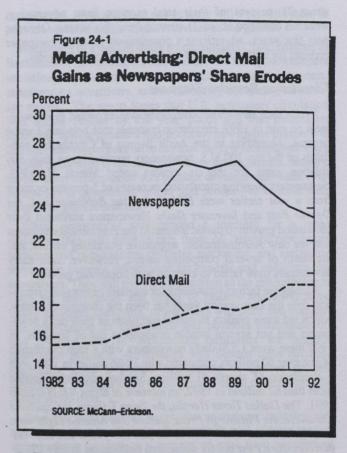
Newspapers are dealing with more complex market trends on the local and national levels. Increasingly, newspapers have had to compete for advertising dollars and audience with directmail operations, cable television, community-based shopper newspapers, radio, local television, Yellow Pages, and weekly newspapers. Not only have newspapers' competitors been changing, but community demographics, local retail markets, and households have changed as well.

Despite these challenges, newspapers have remained profitable, although profits have dropped in recent years. Lowerthan-expected prices for newsprint, cost-cutting measures, and higher advertising rates have helped many newspapers to remain profitable, but sharp newsprint price hikes in 1993 were expected to weaken earnings. Publishers focused on reversing readership declines and developing more aggressive marketing strategies to attract advertising. Many developed new zoned products and publications to attract readers and advertisers.

Momentum Builds, Then Slows For Advertising Revenues

According to the Newspaper Association of America (NAA), newspaper advertising spending was expected to rise 3 to 4 percent in 1993, after increasing about 1 percent in 1992, and plunging more than 5 percent in 1991. First-quarter 1993 expenditures for advertising rose 5 percent from the same period in 1992. Local retail advertising spending for the first quarter was up more than 5 percent from the previous year, and classified advertising spending grew nearly 6 percent during the same period. National advertising spending in newspapers during the first quarter declined about 1 percent, compared with the first quarter of 1992. First-quarter figures for local retail and national advertising failed to reach the growth levels forecast earlier in the year. For the rest of 1993, total newspaper advertising spending was forecast to show slower growth. Newspaper advertising pages were expected to be flat or down about 1 percent. Newspaper advertising rates were up an estimated 4 to 5 percent in 1993.

Local retail and classified advertising experienced stronger recovery in regional markets where the local economy was healthier—the South, Southwest, and Midwest. Newspapers in



the East and West experienced slower, more gradual advertising growth. Some publishers, including The New York Times Company and Times Mirror Company, still showed declines in classified advertising early in the year.

Newspapers' share of total media advertising expenditures continued to shrink in 1993. Their share has dropped from almost 27 percent in 1982 to slightly more than 23 percent in 1992. Over the decade, direct-mail marketers have been the main beneficiaries of these advertising losses for newspapers. Direct-mail's share of total media advertising climbed from more than 15 percent in 1982 to more than 19 percent in 1992. Newspapers remain heavily dependent on advertising revenues. According to 1991 Census data, daily newspapers received

| Trends | and | Forecasts: Newspapers (SIC | 2711) |
|--------|-----|--|-------|
| | | (in millions of dollars except as noted) | |

| | | | | | | | | | Percent Change (1989-1994) | | | | | |
|---------------------------------|--------------|----------|--------------|----------|--------|----------|-------------------|--------|----------------------------|----------|-------|-------|-------|-------|
| Item | 1987 | 1988 | 1989 | 1990 | 1991 | 19921 | 1993 ² | 19943 | 88-89 | 89-90 | 90-91 | 91-92 | 92-93 | 93-94 |
| Industry Data | early const | 1.027000 | C. C. C. LAN | 052.2282 | | Sec. Yes | | | | En alter | | | | |
| /alue of shipments ⁴ | 31.850 | 32.927 | 34.146 | 34,642 | 33,702 | 34.545 | 35.892 | 37,830 | 3.7 | 1.5 | -2.7 | 2.5 | 3.9 | 5.4 |
| Value of shipments (1987\$) | 31,850 | 30.859 | 30.031 | 28,653 | 26,126 | 25,348 | 25,196 | 25.221 | -2.7 | -4.6 | -8.8 | -3.0 | -0.6 | 0.1 |
| Total employment (000) | 434 | 432 | 431 | 443 | 428 | 421 | 422 | 424 | -0.2 | 2.8 | -3.4 | -1.6 | 0.2 | 0.5 |
| Production workers (000) | 148 | 148 | 147 | 149 | 145 | 143 | 142 | 143 | 0.7 | 1.4 | -27 | -1.4 | -0.7 | 0.7 |
| Average hourty earnings (\$) | 11.38 | 11.42 | 11.82 | 12.37 | 12.27 | 12.58 | 12.87 | 13.25 | 3.5 | 4.7 | -0.8 | 2.5 | 2.3 | 3.0 |
| Capital expenditures | 1,523 | 1.631 | 1,985 | 1.886 | 1,538 | _ | _ | - | 21.7 | -5.0 | -18.5 | - | - | - |
| Product Data | | | | 10.10 | ., | | | | | | | | | |
| Value of shipments ⁵ | 30,495 | 31.461 | 32,457 | 32,818 | 31.860 | 32.657 | 33.931 | 35.763 | 3.2 | 1.1 | -2.9 | 2.5 | 3.9 | 5.4 |
| Value of shipments (1987\$) | 30,495 | 29.485 | 28.546 | 27.144 | 24,696 | 23,963 | 23.819 | 23,843 | -3.2 | -4.9 | -9.0 | -3.0 | -0.6 | 0.1 |
| Trade Data | 00,100 | 20,700 | 20,010 | 21,177 | 24,000 | 20,500 | 20,013 | 20,010 | -0.2 | 1.0 | | | | |
| Value of imports | | | | | 40.0 | F0 4 | 10.4 | | | -35.5 | -22.1 | 10.6 | -9.9 | 7.9 |
| Jolua of avoorte | | - | 96.1 | 62.0 | 48.3 | 53.4 | 48.1 | 51.9 | - | -35.5 | 0.8 | -20.8 | -8.0 | 2.9 |
| | A SAME AND A | | 28.6 | 37.7 | 38.0 | 30.1 | 27.7 | 28.5 | - | 31.0 | 0.0 | -20.0 | -0.0 | 2.3 |

'Esumate, except exports and imports

Forecast.

⁵Value of products classified in the newspapers industry produced by all industries. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration (ITA). Estimates and forecasts by ITA.

*Value of all products and services sold by establishments in the newspapers industry.

²Estimate.

about 76 percent of their total receipts from advertising; weeklies obtained about 71 percent from this source. Over the past few years, advertising's contribution to total newspaper receipts for both dailies and weeklies has dropped slightly.

Circulation Remains Stagnant

While total newspaper circulation was expected to show almost no gain in 1993, circulation revenues rose between 3 and 4 percent. According to the Audit Bureau of Circulation, twothirds of the top 100 U.S. newspapers reported some daily circulation gains for the six months ended March 31, 1993. Newspapers showing circulation increases of 5 percent or more from a year earlier were USA Today, the Baltimore Sun, the Denver Post and Investors Daily. Newspapers attributed their circulation growth to public interest in the Presidential campaign and the new Administration, aggressive marketing efforts, and the death of several competing dailies. However, most daily newspapers have failed to keep up with household growth.

Among the factors accounting for stagnant newspaper circulation over the past several years has been the sluggish economy, which led some readers to curtail purchases of their daily newspapers and put several sizable newspapers out of business. In 1992 there were 1,570 daily newspapers with a total circulation of just over 60 million, compared with 1,586 dailies in 1991 with a circulation of almost 61 million. Sunday circulation totaled more than 62 million in 1992, an increase of about 400,000 from 1991. The Dallas Times Herald, the Tulsa Tribune, the Spokane Chronicle, the Pittsburgh Press, and the San Antonio Light were among the dailies that folded in the past few years. The debt-ridden New York Post briefly suspended publication in July 1993.

Circulation losses also occurred as newspapers raised newsstand and subscription prices sharply to compensate for sagging advertising revenues. The NAA reported that daily newspapers charged an average of \$0.35 for a copy in 1992, compared with \$0.32 in 1991 and \$0.31 in 1990. In 1992, 809 dailies charged \$0.35 for a single copy, compared with 779 in 1991.

U.S. weekly newspapers have fared somewhat better than dailies. Their number dropped from 7,417 in 1992 to 7,406 in 1993, as average weekly circulation climbed from more than 54 million in 1992 to more than 55 million in 1993. A number of dailies switched to weekly publication, accounting for some of the circulation gain.

Industry Structure and Operations

Newspaper chains owned 76 percent of the U.S. dailies in 1992. These 132 chains produced 79 percent of weekday newspaper circulation. Many of these companies are small, with total daily circulation below 50,000. The biggest acquisition of 1993 was the New York Times Company's purchase of the *Boston Globe* from Affiliated Publications for about \$1.1 billion.

The total number of newspapers dropped by 16 between 1991 and 1992 due to shutdowns, mergers of morning-evening combinations, and conversions to weekly publication. Over the decade, the number of dailies has dropped by 141. Many metropolitan areas that once supported two competing newspapers now have only one major paper.

Employment in the industry fell about 2 percent in 1992 to 421,000 and was expected to show little change in 1993. Production workers accounted for about 34 percent of total employment in 1993, compared with 37 percent a decade

U.S. Trade Patterns in 1992 Newspapers SIC 2711

(in millions of dollars, percent)

| Expo | rts | a metion | Imports | |
|---------------------------------|-------|------------|---------------------|----------------|
| -0 | Value | Share | Valu | e Share |
| Canada and Mexico | 16 | 53.2 | Canada and Mexico 4 | 4 82.8 |
| European Community | 11 | 37.0 | | 9 16.0 |
| Japan | 0 | 0.2 | | 0 0.2 |
| East Asia NICs South America | 0 | 1.2 | | 0 0.2 |
| Other | 2 | 6.2 | | 0 0.1 0 0.8 |
| World Total | 30 | 100.0 | World Total 5 | 3 100.0 |
| n employees a | T | op Five Co | ountries | and good |
| | Value | Share | Valu | e Share |
| Canada | 14 | 47.1 | Canada 3 | 9 73.0 |
| United Kingdom | 10 | 32.5 | Mexico | 5 9.8 |
| Mexico | 2 | 6.1 | France | 3 6.0 |
| Australia | 1 | 3.0 | Total y | 3 5.5 |
| Netherlands | 1 | 1.7 | United Kingdom | 2 3.4 |

See "Getting the Most Out of Outlook '94" for definitions of the country groupings. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration.

earlier. Some employment losses resulted from companies' cost-cutting measures and technological displacement.

According to Veronis Suhler and Associates, a New York investment banking firm specializing in the communications industry, the newspaper industry has remained one of the most profitable media, even during the recent recessionary period, although the industry's profit margins have declined by about one-third over the past five years. Morton Research, in its *Newspaper Newsletter*, reported that the newspaper businesses of publicly held companies achieved average operating profit margins of better than 13 percent in 1991, which was one of the most difficult years for newspapers since World War II. Newspaper closings helped to improve the profit pictures for some competing papers. Escalating newsprint prices were expected to have a smaller impact on profitability in 1993 than earlier anticipated.

NAA reported that capital expenditures for U.S. newspapers dropped about 27 percent over 1991, the lowest level of spending since 1984. It projected that expenditures would rebound in 1993, rising an estimated 16 percent.

ENVIRONMENTAL PROFILE

Proposed national recycling legislation, which would require large newspaper companies to use Government-mandated levels of recycled newsprint, failed to be enacted in 1992 and by 1993 Congress showed even less interest in the issue. *Presstime* magazine reports that in 26 states and the District of Columbia, state government regulators and newspaper officials have instituted voluntary or mandatory agreements on increasing the recycled content of newsprint.

Newspapers have one of the best recycling records of any U.S. industry. According to NAA, 55 percent of old newspapers, totaling some 7 million metric tons, were recycled in 1992, compared with 35 percent in 1988.

INTERNATIONAL COMPETITIVENESS

Since most U.S. newspapers serve local markets, newspaper exports remain small. Newspapers exported in 1993 totaled \$28 million, down 8 percent from 1992. Canada received 47 percent of the total in 1992, the United Kingdom accounted for 33 percent, and Mexico took 6 percent.

While still few in number, some U.S. newspaper companies have expanded their business interests to international markets. Both USA Today and the Wall Street Journal have considerable distribution overseas. Several U.S publishers have launched papers abroad through joint ventures. The Washington Post and the New York Times, together with Whitney Communications, have published the International Herald Tribune for more than 25 years. More than 200,000 copies of the IHT are now printed daily by facsimile transmission at 11 printing sites and distributed in more than 160 countries. Recently the New York Times and Moscow News jointly launched the New York Times News in Review, a Russian-language edition of the Times; the Hearst Corporation and the Russian newspaper Izvestia joined in publishing We/Mbl.

Newspaper imports amounted to \$48 million in 1993, falling 10 percent from 1992. Canada supplied 73 percent of U.S. newspaper imports, Mexico provided 10 percent, and France, 6 percent.

Outlook for 1994

Newspaper industry receipts in constant dollars are expected to grow less than 1 percent in 1994. The industry's steady recovery depends on a healthier economy generally and improving consumer confidence. Expanding employment, together with increasing retail, automotive, and real estate sales, would boost retail and classified advertising receipts. If economic gains occur in most regions of the nation, newspaper advertising revenues could grow 5 to 6 percent.

Only Sunday newspaper circulation will likely see any gain in 1994. Circulation revenues are expected to grow by at least 5 percent. Consumers may continue to purchase fewer papers because of increases in subscription and newsstand prices over the past few years. The smaller gains in real disposable personal income and personal consumption expenditures forecast for 1994 may cause consumers to modify their purchases of discretionary items, including newspapers. A range of new products, appealing to both readers and advertisers, such as telephone voice-mail information services, could help boost newspaper revenues slightly in 1994.

The two principal expenses for newspapers, labor and newsprint, are expected to show only moderate increases. If demand for newsprint is stronger than expected, prices could rise sharply. Postal rate hikes are not expected before 1995.

Long-Term Prospects

Over the next five years, newspaper industry receipts are forecast to grow at an average yearly rate of 1 to 2 percent in constant dollars. This forecast depends on moderate economic and advertising growth. It is also based on increasing consumer confidence and a moderate rise in both real disposable personal income and personal consumption expenditures.

During this period, the industry will focus more attention on becoming an information services provider for targeted audiences than on remaining a print media business for mass audiences. A diverse group of customers by age, gender, ethnicity and other factors will require newspapers to consider information products in a range of formats tailored to their customers' interests. Rather than countering the impact of their competitors, more and more newspapers will work with them to provide electronic information services to the public.

According to a market study by consultants Clark, Martire & Bartolomeo, Inc. of Englewood Cliffs, New Jersey, newspapers are beleaguered on three fronts: "struggling to maintain readers, pressured by advertisers, and squeezed by competing advertising media." The report states that U.S. newspaper circulation will shrink further by the year 2000, and that even after investing in new products and services, newspaper profits will decline. The report goes on to say that too few newspapers seem willing to do what is necessary to insure future success, namely, invest more in promotion and product development—and even accept lower advertising prices and profits—to reverse their long-term market erosion.

While newspapers will remain a medium for a mass audience, they will have to rely more on targeted newspaper sections and publications, database marketing, and electronic services to provide information for readers and audiences for advertisers. They will pay closer attention to the marketplace to learn the preferences and needs of readers and advertisers. Using database marketing, newspapers will store and manipulate information on households and business establishments and produce lists of prospective customers for targeted newspaper products. Advertisers will benefit from database marketing since it allows newspapers to deliver specific advertising information to small groups based on demographic and lifestyle data.

Over the next several years, the newspaper industry will work to market itself more effectively. It will address readership declines (readers as a percent of total adult population) especially among younger persons, negative perceptions of newspapers on the part of advertisers and advertising agencies, and obstacles to purchasing newspaper advertising. A report of a survey in Presstime magazine indicates that each successive generation is less likely to read newspapers as frequently as the prior generation. According to the study, readers' perceptions of newspapers as a useful medium significantly affect advertisers' perception of newspapers as an effective advertising medium. Newspapers will have to develop circulation strategies and editorial products to appeal to various age groups to boost circulation and target audiences advertisers want to reach. In addition, newspapers will have to do more targeting of ethnic and racial groups, the elderly, women, and other demographic and lifestyle markets. In particular, Hispanics and aging baby boomers represent growing segments of the consumer market that newspapers will actively pursue for their advertisers over the next 10 years.

Simmons Market Research Bureau reports that while about 63 percent of adults 18 and older read one or more newspapers on an average weekday, newspaper daily adult readership has fallen from nearly 81 percent in the early 1960's. In 1992, persons aged 55 to 64 had the highest newspaper readership (72 percent), while the lowest readership (54 percent) was among young adults, aged 18 to 24. With a broad range of leisure pursuits competing for Americans' time and a wide range of media wanting to provide the public with entertainment and information, newspapers will have to become more valuable information sources in such areas as health and fitness, money management, parenting and family activities, entertainment, and lifestyle trends. Some papers have attracted new readers by offering additional information on various topics in electronic as well as new print forms.

Large retailers and national advertisers should find it easier to purchase advertising from newspapers as electronic data interchange systems become available for handling advertising transactions via computer. To make it easier for national advertisers to purchase advertising in a number of newspapers at the same time, newspapers will soon offer a "one-order/onebill" newspaper advertising network."Newspapers should also attract more advertising when they begin producing and distributing special newspaper sections for delivery only to households that subscribe to them. Other targeted advertising strategies will include selective delivery of advertising inserts to counter direct-mail's continuing threat.

Although some newspapers are joining with telephone and cable companies to create new electronic products, many still view these communication businesses as formidable competitors vying with newspapers for readers' and advertisers' time and money. Over the next few years, newspapers increasingly will form alliances with other media, including television, cable, and phone companies. They will do so even as they continue to support legislation restricting the regional Bell companies from providing electronic information services over their own telephone lines.

At the same time, newspapers will assess their own role in the electronic communications networks more carefully as telephone and cable television companies increase their ability to send huge amounts of information through these networks. Newspapers' ability to gather, analyze, and report the news places the medium in a strategic position to provide valuable information content for distribution in an electronic format. Much of the information in their databases can already be accessed electronically. The Hearst Corporation, the Los Angeles Times, and Advance Publications, Inc., among others, are exploring electronic communication technologies and opportunities through their own organizations or with other companies. Newspapers will become more involved in media/ communications alliances on a global level as they seek additional revenues in the international advertising market. Rose Marie Zummo Bratland, Office of Consumer Goods (202) 482-0380, July 1993.

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PERIODICALS

Periodical advertising continued to recover in 1993, but at a slower-than-expected pace. After experiencing an upswing in 1992, the industry expected to see strong growth throughout 1993. Nagging uncertainty about the nation's economic recovery kept advertisers from substantially increasing their advertising budgets for magazines. Circulation was expected to be flat for the year or down slightly. Magazine industry receipts totaled \$22.8 billion, up slightly more than 1 percent in constant dollars from 1992.

Advertising in consumer periodicals during the first half of 1993 recorded its strongest first-half gains in revenue and advertising pages since 1989. However, after a sharp gain in advertising pages during the first quarter, advertising pages were flat for consumer magazines during the second quarter.

Trade Administration (ITA). Estimates and forecasts by ITA.

| (in millions of dollars except as noted) | Trends | and Forecasts: Periodicals (SIC 2721) |
|---|--------|--|
| the second se | | (in millions of dollars except as noted) |

| | | | | | | A CONTRACTOR | | Percent Change (1989-1994) | | | | | |
|---|---|---|--|---|--|---|--|--|--|---|---|---|---|
| 1987 | 1988 | 1989 | 1990 | 1991 | 1992 ¹ | 1993 ² | 1994 ³ | 88-89 | 89-90 | 90-91 | 91-92 | 92-93 | 93-9 |
| 17,329 17,329 110 18.3 11.06 246 | 18,612 17,525 111 19.1 11.99 246 | 19,787 17,449 116 20.7 12.45 272 | 20,397 16,815 115 21.6 13.09 275 | 20,345 15,735 111 20.7 13.21 223 | 21,667 16,018 108 19.5 13.64 | 22,772 16,194 109 19.3 14.05 | 24,366 16,517 111 19.7 14.47 | 6.3 -0.4 4.5 8.4 3.8 10.6 | 3.1 -3.6 -0.9 4.3 5.1 1.1 | -0.3 -6.4 -3.5 -4.2 0.9 -18.9 | 6.5 1.8 -2.7 -5.8 3.3 | 5.1 1.1 0.9 -1.0 3.0 | 7.0 2.0 1.8 2.1 3.0 |
| 16,492 16,492 | 17,664 16,632 | 18,748 16,533 | 19,256 15,874 | 19,424 15,022 | 20,473 15,292 | 21,517 15,460 | 23,023 15,769 | 6.1 -0.6 | 2.7 -4.0 | 0.9 -5.4 | 5.4 1.8 | 5.1 1.1 | 7.0 2.0 |
| Ξ | - | 140 448 | 122 666 | 121 705 | 136 731 | 163 768 | 179 829 | = | -12.9 48.7 | -0.8 5.9 | 12.4 3.7 | 19.9 5.1 | 9.8 7.9 |
| | 17,329 17,329 110 18.3 11.06 246 16,492 | 17,329 18,612 17,329 17,525 110 111 18.3 19.1 11.06 11.99 246 246 16,492 17,664 | 17,329 18,612 19,787 17,329 17,525 17,449 110 111 116 18.3 19.1 20.7 11.06 11.99 12,45 246 246 272 16,492 17,664 18,748 16,492 16,632 16,533 140 | 17,329 18,612 19,787 20,397 17,329 17,525 17,449 16,815 110 111 116 115 18.3 19.1 20.7 21.8 11.06 11.99 12.45 13.09 246 246 272 275 16,492 17,664 18,748 19,256 16,492 16,632 16,533 15,874 - - 140 122 | 17,329 18,612 19,787 20,397 20,345 17,329 17,525 17,449 16,815 15,735 110 111 116 115 111 18.3 19.1 20.7 21.6 20.7 11.06 11.99 12.45 13.09 13.21 246 246 272 275 223 16,492 17,664 18,748 19,256 19,424 16,492 16,632 16,533 15,874 15,022 - - 140 122 121 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 17.329 18,612 19,787 20,397 20,345 21,667 22,772 24,366 17,329 17,525 17,449 16,815 15,735 16,018 16,94 16,517 110 111 116 115 111 108 109 111 18.3 19.1 20.7 21.6 20.7 19.5 19.3 19.7 11.06 11.99 12.45 13.09 13.21 13.64 14.05 14.47 246 246 272 275 223 - - - 16,492 17,664 18,748 19,256 19,424 20,473 21,517 23,023 16,492 16,632 16,533 15,874 15,022 15,292 15,460 15,769 - - 140 122 121 136 163 179 | 17.329 18,612 19,787 20,397 20,345 21,667 22,772 24,366 6.3 17,329 17,525 17,449 16,815 15,735 16,018 16,194 16,517 -0.4 110 111 116 115 111 108 109 111 4.5 18.3 19.1 20.7 21.6 20.7 19.5 19.3 19.7 8.4 11.06 11.99 12.45 13.09 13.21 13.64 14.05 14.47 3.8 246 246 272 275 223 - - - 10.6 16,492 17,664 18,748 19,256 19,424 20,473 21,517 23,023 6.1 16,492 16,632 16,533 15,874 15,022 15,292 15,460 15,769 -0.6 - - 140 122 121 136 163 179 - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1987198819891990199119921199321994388-8989-9090-9191-9217,32918,61219,78720,39720,34521,66722,77224,3666.33.1-0.36.517,32917,52517,44916,81515,73516,01816,19416,517-0.4-3.6-6.41.81101111161151111081091114.5-0.9-3.5-2.718.319.120.721.620.719.519.319.78.44.3-4.2-5.811.0611.9912.4513.0913.2113.6414.0514.473.85.10.93.324624627227522310.61.1-18.9-16,49217,66418,74819,25619,42420,47321,51723,0236.12.70.95.416,49216,63216,53315,87415,02215,29215,46015,769-0.6-4.0-5.41.814012212113616317912.9-0.812.4 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

3Forecast

Value of all products and services sold by establishments in the periodicals industry.

Advertising gains for the business press were also more impressive early in the year but slowed during the second quarter. Advertisers were cautious in their advertising spending because of lower-than-expected consumer purchasing and their own uneasiness about the health of the economy.

Competition from television, special advertising promotions, and direct mail-became more intense as publishers vied for shrinking advertising dollars. Magazines continued to fight their image as a secondary advertising medium by offering advertisers targeted markets for their products through a growing number of special-interest publications and ancillary products.

Industry cost-cutting measures implemented during the recession were expected to boost profit gains during 1993. Over the year, publishers focused on the effectiveness of magazine advertising, the profitability of circulation, and on the growing importance of pleasing their readers. In addition, publishers directed their attention to recycling issues and state and Federal tax proposals affecting magazines.

Advertising Recovery Slows

After experiencing their strongest first quarter in eight years, consumer magazines' advertising growth halted in the second quarter. Publishers Information Bureau reported that for the first quarter, advertising pages rose about 6 percent and advertising receipts climbed about 12 percent from the firstquarter 1992 level. During the first seven months of 1993, advertising pages were up nearly 2 percent from the same period in 1992, and advertising revenues increased about 6 percent, reflecting the slowdown in growth during the second quarter and advertising page and revenue declines in July. In many instances, large advertisers reconsidered their advertising commitments to magazines and canceled or cut back their scheduled advertising on short notice as business growth slowed. Publishers resorted to advertising rate discounting and special offers to attract advertisers. For the year, advertising pages grew 1 to 2 percent, and advertising receipts rose 5 to 6 percent. Consumer magazine groups recording the most growth in advertising revenues in 1992 included woman/fashion/service, outdoor and sports, national business titles, and computer magazines. In 1993, advertising recovery for magazines was spotty; some magazines in special-interest segments did well while others in the same group recorded declines.

Most of the top 10 consumer magazine advertising categories recorded revenue gains during the first half of 1993. Categories showing the largest increases were drugs/remedies, direct-response companies, business/consumer services, and toiletries/cosmetics. Computer/office equipment/stationery and cigarettes/tobacco expenienced substantial declines.

Business and professional magazines as a group saw no growth in advertising pages in 1992, and very little overall growth in pages was likely in 1993. International Business Communication's 1994 Business Press Outlook projected an 8 to 9 percent gain in advertising revenues in 1993, based on the 250 business publications tracked. American Business Press, the major trade association for business publishers, expected advertising revenues to rise about 4 percent in 1993. Advertising recovery for business publications groups was mixed, with some sectors performing very well, and others doing poorly. Groups that did well included computers, electronics, telecommunications, and long-term health care. Those performing poorly included aviation and aerospace, advertising and marketing, and construction-related publications.

From 1982 to 1992, advertising's share of total magazine receipts have declined slightly for both consumer magazines and the business press. In 1982, advertising accounted for 55 percent of total consumer magazine receipts. By 1992 it had fallen to 51 percent. Over the same decade, advertising receipts for business and professional publications dropped from 63 percent of total receipts to 60 percent. A growing number of business and professional magazines have gone from controlled circulation (sent free to industry executives and professionals) to paid circulation as advertising receipts have become more difficult to obtain. As their advertising receipts have become more unpredictable, consumer magazines have looked more to increasing circulation revenues.

Circulation Declines

Economic uncertainty, weak consumer confidence, and modest gains in real disposable personal income took their toll on consumer magazine circulation in 1992 and 1993. Although a record number of new magazines were started in 1992, magazine suspensions increased in a number of magazine groups in 1992 and 1993.

Audit Bureau of Circulation (ABC) data for 1992 reported that for the 570 consumer magazines tracked, total circulation fell for a second consective year. Annual combined circulation per issue for single-copy and subscription circulation each declined by about 1 million. Single-copy circulation totaled about 71 million per issue, while subscriptions numbered about 292 million per issue for consumer magazines. This was the first time since 1976 that subscription circulation fell for these ABC-audited magazines, although in 1991 subscription circulation was virtually unchanged from the previous year.

Newsstand magazines accounted for 20 percent of total consumer magazine circulation in 1991, but for 31 percent of total magazine circulation revenues; subscription represented 80 percent of circulation and 69 percent of circulation receipts.

Over the past decade, publishers have charged higher cover prices for newsstand editions of their publications than for subscriptions and have also increased rates on newsstand prices more rapidly. However, higher magazine cover prices in recent years have led to declining newsstand sales as consumers became more cautious in their purchasing. In the past few years, publishers have resisted increasing magazine cover prices but have attempted to make subscription sales more profitable. According to ABC data on the 50 leading magazines' cost to readers, the average single-copy price of a magazine rose from \$2.65 in 1990 to \$2.67 in 1992, an increase of less than 1 percent. By comparison, the average subscription price rose 2 percent, going from \$27.11 in 1990 to \$27.77 in 1992. During the 1987-90 period the average yearly single-copy price climbed 20 percent, as the average yearly subscription price increased 11 percent.

Changing Industry Profile

The Gale Directory of Publications listed 11,143 U.S. periodicals (consumer, farm, and business) for 1992, 96 fewer than in 1991. The Consumer & Farm Magazines publication of Standard Rate and Data Service reported a total of 2,318 consumer and farm publications in 1992, 42 more than in 1992. According to Samir Husni's Guide to New Consumer Magazines, a record 679 new magazine titles were launched in 1992,

an increase of 126 over 1991. The largest number of startups were erotica and life-style/service magazines, but health, food, and children's publications also recorded strong gains. Many of the new magazines were special issues and one-time publications, *Esquire* launched two special issues in 1992, *Esquire Gentleman* and *Esquire Sportsman*. In early 1993, *Scientific American* published *Scientific American Medicine*, a one-time newsstand publication.

Magazines targeted to the baby boomers or their children, the so-called baby boomlets, were successful launches even during the recent recession. Hot magazine groups in the last five years have been children and teen magazines, which have doubled in number. New titles include *The Simpsons*, *Disney Adventures*, and *American Girl*. Spinoffs from established magazines have been popular, with such titles as *Discover for Kids*, *Money for Kids*, and *Field & Stream Jr*. Personal finance titles for the boomers have also done well. New launches, *Smart Money* and *Worth*, were aimed at this group.

A number of magazines targeted age or demographic sectors of the population by publishing a number of special editions. Several parenting magazines, including *Child* and *American Baby*, offered editions tailored to the age of a reader's child. Other recent publications targeted to a niche market include *Emerge*, a newsweekly for Black Americans, *The Senior Golfer*, targeted at aging baby boomers, and *Skiing for Women*.

Several prominent consumer and trade publications ceased to publish in 1993 as cautious advertisers, declining readership, and saturated magazine sectors made the survival of some magazines increasingly difficult. Conde Nast Publications' folding of *HG* (*House & Garden*), a 92-year old home magazine, sent shock waves through the magazine industry. Univision publications suspended *Mas*, a general interest, Spanish-language lifestyle magazine with controlled circulation of 630,000. Among business journals, the 120-year old *Home Improvement Center* folded, as did *MagazineWeek*, the only weekly trade title serving the magazine industry. Ziff-Davis, a computer publishing giant, closed both *Corporate Computing* and *PC Sources*.

Acquisition activity in 1993 focused on Conde Nast Publications' \$170 million purchase of Knapp Communications Corp., publisher of *Bon Appetit* and *Architectural Digest*, giving Conde Nast a dominant position in the home decor and epicurean markets. This followed an announcement late in 1992 that Time Inc. would form a joint venture with American Express Publishing to manage several of AmEx's magazines, including *Travel & Leisure* and *Food & Wine*. Rather than acquiring properties, publishers focused on redesigning their publications, creating spinoff magazines and other products, including fax and videotext editions.

Employment and Production Costs

After a three-year period of downsizing to improve efficiency and cut cost, many magazine publishing companies began hiring in 1993. Publishers sought employees who could perform a number of jobs because of lean hiring budgets. Total employment rose about 1 percent to an estimated 109,000. The number of production workers was about 19,300, slightly less than in 1992.

Overall production and distribution costs rose moderately in 1993. Magazine publishers expected some publication grades of paper to rise as much as 9 percent during 1993, but anticipated no increases in ink prices. No postal rate increases took effect, but Congress passed legislation that would phase in higher postal rates for nonprofit magazines over a five-year period.

ENVIRONMENTAL PROFILE

Recycling has become an important issue. A few publishers have switched to coated recycled paper for their magazines, while others are gradually converting. Still others have no plans to use paper with recycled content. Many publishers are aware that the magazine industry must initiate a voluntary recycling program to keep Congress from enacting mandatory recycling requirements for the industry. Some major publishers are still reluctant to consider using recycled paper because of its higher cost, lower quality, and limited availability. Publishers are beginning to realize that they need to demand more recycled paper before paper producers will begin producing more and better quality recycled paper.

Although the Environmental Protection Agency (EPA) has not proposed any mandatory requirements for printing and writing papers, the agency revised its guidelines for Government procurement of recycled paper in 1993. This was of concern to publishers since any guidelines the EPA sets are likely to become the industry's standards.

According to one industry estimate, U.S. output of recycled printing and writing paper is 6 percent of total production, about the same level as 15 years ago. *Folio Magazine* reports that about 80 percent, or about 6 million tons, of high-grade printing and writing paper is disposed of in landfills annually.

INTERNATIONAL COMPETITIVENESS

Export growth slowed for U.S. magazines in 1993. Exports totaled an estimated \$768 million, a gain of about 5 percent from 1992. Between 1989 and 1992, U.S. periodical exports grew at an average annual rate of 18 percent. The principal markets for U.S. magazines in 1992 were Canada (74 percent), the United Kingdom (7 percent), and Mexico (5 percent). While U.S. exports to Canada rose at an average yearly rate of 16

U.S. Trade Patterns in 1992 Periodicals SIC 2721

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|--------|-------|-------|-------------------|-------|
| Expo | orts | | Impor | ts |
| | Value | Share | | Value |
| Inning | 572 | 79.2 | Canada and Merico | 83 |

Share

61.1

| European Community Japan East Asia NICs South America Other | 95 8 9 11 35 | 13.0 1.1 1.3 1.6 4.8 | European Community Japan East Asia NICs South America Other | 36 8 4 3 2 | 26.6 6.2 3.0 1.9 1.3 |
|---|--------------------------|----------------------------------|---|------------------------|----------------------------------|
| World Total | 731 | 100.0 | World Total | 136 | 100.0 |
| | | | | | |

Top Five Countries Value Share Share Value 57.6 78 73.6 Canada United Kingdom 538 14.8 20 52 35 22 United Kingdom 6.2 3.7 3.5 8 4.7 Mexico 55 Netherlands 3.1 13 Mexico 1.8 France

See "Getting the Most Out of Outlook '94" for definitions of the country groupings. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration. percent between 1989 and 1992, they dropped 1 percent in 1992 from their 1991 level. U.S. exports to Mexico, France, the United Kingdom, the Netherlands, and Bermuda recorded strong growth between 1989 and 1992. Most of these markets showed average annual growth rates of more than 25 percent during this period. Over the past few years, softness in the economies of many industrialized countries curtailed discretionary consumer purchases of items such as magazines. International distributors expect magazine sales to show substantial growth as global economic activity improves.

Some magazine publishers have found that with their revenues declining at home, they must seek readers abroad. More of them are exploring international markets not only in Europe but in Latin America, the Middle East, Africa, and Asia. Recently, Rodale Press, publisher of Runner's World, and General Media International, publisher of Longevity, launched South African editions of their publications through joint ventures. Ms. magazine began distributing in the United Kingdom, Australia, and New Zealand. National Geographic and Time are exploring the feasibility of launching Japaneselanguage editions of their magazines. Hearst Corporation has joined with Televisa S.A. of Mexico to have more of its titles translated into Spanish-language editions for the Latin American market. Currently, Spanish-language editions of Hearst's Cosmopolitan, Harper's Bazaar, Popular Mechanics, and Good Housekeeping are distributed in Latin America. A Canadian edition of Sport Illustrated, launched in 1993, encountered protests from Canadian magazine publishers. Under new Canadian government regulations, U.S. companies will have to obtain government approval for future Canadian editions of their magazines. For nearly 30 years, the Canadian government has imposed a number of restrictions on foreign magazines doing business in Canada.

U.S. publishers have been more cautious in approaching the Eastern European market, although a growing number of European publishers have sought business and investment opportunities in this area. These foreign publishers believe the market offers fast growth potential. The printing and publishing sector in Eastern Europe is in need of technical assistance for its publishing, printing, and distribution operations. Those foreign companies providing assistance are most likely to gain a strong foothold. *Reader's Digest* is planning to launch a Czech edition, and recently *Playboy* started a Polish edition.

Opportunities for U.S. magazine publishers in the world market continue to grow. Many U.S. publications are specialinterest titles which are not available in other countries. The United States is the only country worldwide with a sufficiently large, affluent, and educated population to support a large number of special-interest titles. These titles appeal to a small segment of a country's population, and in most countries the population statistics do not support narrowly focused magazines. In addition, since English is widely read and spoken abroad, the language barrier does not greatly impede American magazine sales overseas. Ron Scott, a magazine industry consultant, notes in *Folio Magazine* that for many smaller U.S. special-interest magazines, international newsstand distribution offers an opportunity to sell a sizable number of copies and establish a presence in the international market.

U.S. imports of magazines climbed an estimated 20 percent in 1993, to about \$163 million. Major suppliers in 1992 were Canada (58 percent), the United Kingdom (15 percent), and Japan (6 percent.)

Outlook for 1994

Publishers expect 1994 to be a better year for magazine advertising and circulation as economic activity picks up. Projected growth in Gross Domestic Product (GDP) and corporate profits should encourage companies to increase their advertising budgets. If advertisers and consumers are more confident about the economy in 1994, U.S. magazine industry receipts could rise 2 to 3 percent in constant dollars. Advertising pages will likely increase modestly for consumer and business and professional publications, in the range of 2 to 4 percent, while circulation for both magazine groups will probably be flat or up less than 1 percent.

Even though real disposable personal income is expected to grow at a slightly slower rate than in 1993, increasing consumer confidence could produce more stability in magazine circulation than has existed over the past few years. With so many new titles, the shakeout of weaker titles could continue in 1994, especially in the absence of strong advertising growth.

Major costs, such as for printing, paper, and ink, should increase an average of 2 to 3 percent in 1994, unless demand rises sharply. No postal rate increases are expected before early 1995.

Long-Term Prospects

Magazine publishers will work harder over the next five years to maintain their share of media advertising and hold on to valuable readers. With an increasing array of media choices available to advertisers and a growing number of leisure-time options open to consumers, magazine publishers will have to be more responsive to the needs of both groups. Publishers will provide a broader range of information services to readers and advertisers in various media formats, rather than focus only on magazines as the sole advertising medium for their customers. If GDP and advertising grow at a moderate rate over the next five years, the magazine industry should increase its receipts at an average annual rate of 1 to 2 percent in constant dollars.

Narrowly targeted magazines will gain more favor among advertisers in the next few years, since more readers are being attracted to publications that mirror their lifestyles and interests. While circulation for these publications is generally small, advertisers are finding these publications give them a better opportunity to reach consumers interested in their products. The editorial content of more and more magazines will be aimed at reaching specific age or demographic groups. Publishers will concentrate on providing higher quality editorial content for their special-interest publications by offering selective sections in their magazines or supplemental editorial content geared to the specific needs and interests of readers. These selective editorial options for readers not only add more editorial value to a magazine but also give advertisers added value for their advertising dollars. Selective binding techniques that permit publishers to create a number of customized editorial editions of a single issue of a magazine will become more commonplace over the next few years.

Publishers also will make greater use of their own subscriber databases in developing information profiles of their readers that both they and advertisers can use to market a wide range of other products. Magazines that are best able to identify their readers, the interests of these readers, and advertisers who desire to reach this audience will have an advantage over other magazine and media competitors. Increasingly, magazine publishers will have to demonstrate to advertisers how magazine advertising fits into advertisers' overall marketing plans.

A growing number of magazines will produce new products in numerous formats and pursue cross-media ventures as they seek new sources of revenues. They will make available database programs on CD-ROM and computer software and through online services. They also will provide more programming for radio, television, and cable and make their editorial materials available on tape and video. More publishers will explore publishing their magazines in an electronic format. Jay Melvin of the Magazine Publishers Association reports in his Newsletter of International Publishing that two related trends, the growing technical capability of information and entertainment providers and the growing consumer use of new technologies, are providing the momentum for new publishing opportunities. These trends are making it possible for magazines to deliver personalized services that enhance a publisher's relationship with both the reader and media user. In addition, publishers will provide a more direct and responsive link between advertisers and their prospective customers. More publishers will become involved in custom publishing projects with companies wanting to publish their own magazine titles for consumers of their products. IBM's Profit and Beyond Computing are being published in a partnership arrangement with the New York Times Company; Gruner + Jahr USA is producing Target the Family for Target Stores.

Particular age, ethnic, and lifestyle groups will be the focus of many special-interest publications as publishers and advertisers become more interested in reaching these groups. Children, senior citizens, and baby boomers are among the age groups that will be targeted. Hispanics, Asian Americans, and African Americans will also receive considerable attention, since marketing to these groups can be more effective if presented in a cultural context. More publications geared to families, teenagers, sports enthusiasts, hobbyists, and other lifestyle groups will emerge over the next few years.

A growing number of publishers of special-interest magazines will consider overseas distribution for their publications. Joint ventures with foreign partners will be the major vehicle of investment abroad for publishers since they offer more profitability, although licensing arrangements will continue as an option. Publishers will invest not only in business opportunities abroad that promote their U.S. titles, but will invest in new or existing foreign titles distributed abroad. Acquisitions and mergers, such as the recent megamerger of Elsevier of the Netherlands, the world's largest business-to business magazine publisher, and British-based Reed International, the eighthlargest media company, will increase as publishing companies seek to strengthen their position in the global market.—Rose Marie Zummo Bratland, Office of Consumer Goods (202) 482-0380, August 1993.

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BOOK PUBLISHING

Growth in consumer demand lifted shipments of the U.S. book publishing industry (SIC 2731) to \$18.7 billion in 1993, an inflation-adjusted gain of 3 percent over 1992. Sales of trade books—works of fiction or nonfiction sold through bookstores—increased by an estimated 10 percent in nominal dollars in 1993 over 1992, matching 1992's growth of trade book sales over 1991. Improved funding levels at U.S. schools and libraries raised demand for elementary and high school textbooks, as well as technical, scientific, and professional books. Exports of U.S. books grew modestly in 1993, a reflection of weak economic conditions in Canada and the European Community.

Employment in book publishing receded slightly in 1993, the result of the industry's continued cost-cutting efforts. Approximately 76,000 persons held book publishing positions in 1993, a decline of 800 jobs from 1992 and a drop of 1,300 positions from the 1991 employment peak of 77,300. Most job losses occurred in marketing, administrative, and editorial positions, but production workers also experienced some cutbacks.

Publisher's profit margins improved in 1993, the result of stable payroll and manufacturing costs, as well as from efficiencies achieved in marketing and distributing a larger volume of printed products. Merger and acquisition activities by book publishers were minimal in 1993, reflecting publishers' disinclination to absorb higher debt levels.

Emerging Trends in Marketing and Distribution

A series of trends, barely out of gestation, is becoming critical to publishers' success in the 1990's. They include the large-store concept of retailing, the marketing of publishers' materials in nonprint media, and international protection of U.S. copyrights.

Book retailing in the 1970's was characterized by growth of U.S. chain bookstore operations in concert with the development of shopping malls. Traffic in bookstores in the 1980's was enhanced by the spread of discounting. In the 1990's, the superstore concept of book retailing is one of the driving forces behind double-digit growth of trade books in the period 1992–93. Generally situated near large shopping centers, superstores maintain large inventories of anywhere from 30,000 to 80,000 titles, and employ generally well-informed sales personnel. They present a competitive threat primarily to those mall-based chain stores with small book inventories and less well-informed staffs. By providing space for more books, superstores expand audiences for titles released by small to medium sized publishers whose books may not otherwise find a broad retail market.

The mass acceptance of audio books, beginning in the late 1980's, has encouraged publishers to seek additional markets for products released in nonprint formats. The initial focus is on supplying database and informational materials on CD-ROM disks, designed for sale to institutional and library markets. Publishers of encyclopedias and reference books have been the first to tap opportunities in the electronic marketplace, but virtually all publishers are seeking entry points to a thus far elusive audience. Until CD-ROM equipment becomes either more affordable or housed within personal computers, reaching U.S. households and educational markets will remain on the periphery of most publishers' marketing plans.

U.S. copyright law was revised and enhanced in the 1970's, and the application of its principles was carried to international markets in the 1980's. By the early 1990's, a rapidly growing number of U.S. publishers was becoming cognizant of foreign markets for U.S. books and the protection afforded by international copyright. Direct exports account for 10 percent of the book publishing industry's sales, but the fastest growing segment of the international market is U.S. royalties derived from the sale of rights and translations. Foreign payments to U.S. publishers from royalty transactions were placed in the range of \$300 million to \$500 million in 1993, values that could double by the close of the decade.

Changing Markets for U.S. Books

Total sales of U.S. books approached \$17.2 billion in 1993, with shipments spread among consumer, educational, business, and institutional markets. Factors influencing U.S. book demand include general economic conditions; disposable personal income; educational enrollments, funding levels and attainment; professional and occupational employment; and institutional and library funding. With approximately 50,000 new books or editions published annually, the industry's products defy simple classification. Ranked by market share, the categories consist of textbooks (27 percent), trade books (21 percent), technical, scientific, and professional books (21 percent), book club and mail-order publications (10 percent), mass market paperbound books (8 percent), and all other books (13 percent).

Enrollment gains at U.S. schools and colleges pushed textbook sales to \$4.7 billion in 1993, but most of the increase in sales resulted from higher textbook prices. The nation's elementary and secondary schools drew 800,000 new students in 1993, while the matriculation level at U.S. colleges and universities increased by 150,000. Textbooks are the largest and generally most profitable sector of the U.S. publishing industry, but a gradual movement of more nonprint materials into the nation's classrooms could undermine the role of textbooks in the learning process.

Markets for adult and juvenile trade books totaled \$3.6 billion in 1993, supported by an increase in U.S. retail outlets and stores with more square footage. Price discounting, author recognition, and disposable income influence demand for trade books, and a growing number of stores are building traffic by specializing in books covering selected subject categories. The nation's 20,000 retail bookstores are employing computerized order and inventory systems to better serve the book buying public and to increase store profitability. Books sold through retail warehouse operations focus on sales of the most popular titles and currently account for just 3 percent of total shipments, but their importance rests on bringing books to an audience not predisposed toward book buying.

Publishers of technical, scientific, and professional books recorded shipments of \$3.6 billion in 1993, an increase of 10 percent in nominal dollars over 1992. Sales gains were supported by increases in library funding and growth in the number of persons employed in technical and professional occupations. Exports of U.S. technical, scientific, and professional books saw minimal growth in 1993, with stagnant economies in the EC and Japan limiting foreign demand.

Combined sales of book club books and mail-order publications approached \$1.7 billion in 1993, with price increases lifting shipments fractionally above 1992. Growth in the number of U.S. retail book outlets provides stiff competition to book club and mail-order houses, but tight cost controls have

Trends and Forecasts: Book Publishing (SIC 2731) (in millions of dollars except as noted)

| | | | | | | | | and the | Percent Change (1989-1994) | | | | | |
|---------------------------------|--------|--------|----------------|--------|--------|-------------------|-------------------|----------|----------------------------|-------|-------|-------|-------|-------|
| ltem | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 ¹ | 1993 ² | 19943 | 88-89 | 89-90 | 90-91 | 91-92 | 92-93 | 93-94 |
| Industry Data | | | and the second | | | | · Allera | Res alle | and the | | | | | |
| Value of shipments ⁴ | 12.620 | 13.571 | 14.074 | 15.318 | 16.596 | 17.425 | 18,730 | 20.320 | 3.7 | 8.8 | 8.3 | 5.0 | 7.5 | 8.5 |
| Value of shipments (1987\$) | 12,620 | 12.803 | 12.455 | 12.872 | 13,341 | 13,675 | 14.085 | 14,610 | -2.7 | 3.3 | 3.6 | 2.5 | 3.0 | 3.7 |
| Total employment (000) | 70.1 | 70.2 | 73.9 | 73.5 | 77.3 | 76.8 | 76.0 | 77.0 | 5.3 | -0.5 | 5.2 | -0.6 | -1.0 | 1.3 |
| Production workers (000) | 15.9 | 16.5 | 17.1 | 17.3 | 17.1 | 17.6 | 17.3 | 17.5 | 3.6 | 1.2 | -1.2 | 2.9 | -1.7 | 1.2 |
| Average hourty earnings (\$) | 10.67 | 10.76 | 11.56 | 11.68 | 12.72 | 13.04 | 13.30 | - | 7.4 | 1.0 | 8.9 | 2.5 | 2.0 | - |
| Capital expenditures | 240 | 302 | 319 | 329 | 331 | - | - | - | 5.6 | 3.1 | 0.6 | - | - | - |
| Product Data | | | | | | | | | | | | | | |
| Value of shipments ⁵ | 11.630 | 12,156 | 12.981 | 14,267 | 15.215 | 15.975 | 17.175 | 18,635 | 6.8 | 9.9 | 6.6 | 5.0 | 7.5 | 8.5 |
| Value of shipments (1987\$) | 11.630 | 11,468 | 11,487 | 11,989 | 12.230 | 12,535 | 12,910 | 13,395 | 0.2 | 4.4 | 2.0 | 2.5 | 3.0 | 3.8 |
| Trade Data | 11,000 | 11,400 | 11,407 | 11,000 | | 12,000 | | , | | | | | | |
| Value of imports | | | | | 070 | 000 | 1 000 | 1.075 | _ | 13.3 | 3.9 | 12.8 | 3.0 | 5.4 |
| | - | - | 746 | 845 | 878 | 990 | 1,020 | | | 27.2 | 4.9 | 9.2 | 3.3 | 5.0 |
| Value of exports | - | | 1,123 | 1,428 | 1,498 | 1,636 | 1,690 | 1,775 | - | 21.2 | 4.3 | 3.2 | 0.0 | 0.0 |

¹Estimate, except exports and imports

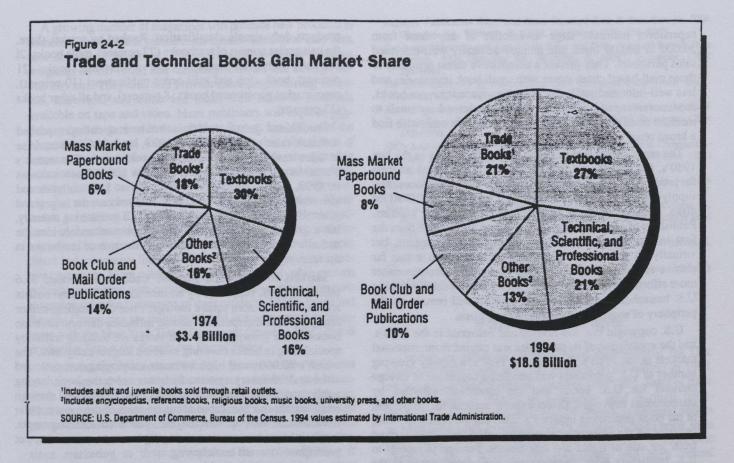
³Forecast

⁴Value of all products and services sold by establishments in the book publishing industry.

5Value of products classified in the book publishing industry produced by all indus tries.

SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration (ITA). Estimates and forecasts by ITA.

²Estimate.



helped these firms maintain an attractive profit range even in the face of slightly lower volume. Postage is a critical cost element that should remain stable through 1994.

Shipments of mass market paperbound books totaled \$1.4 billion in 1993, with gains over 1992 resulting essentially from higher prices rather than increases in units sold. Publishers reach the broad U.S. audience for low-cost books by reprinting hardcover bestsellers and engaging in original publishing under such theme subjects as mysteries, romance, military, and Westerns. Constraints on leisure time and growth of television viewing have limited growth of the mass book market, and little relief from these conditions appears in the offing.

An additional \$2.2 billion in publishers' shipments in 1993 were spread among an array of book categories, including religious, music, university press, and reference books. These are addressed to a variety of markets, some broadly based and others highly focused. Growth of the U.S. religious community

| Table 1: Top | 10 U.S. | Book Pub | lishers. | 1992 |
|--------------|---------|----------|----------|------|
|--------------|---------|----------|----------|------|

| Company | Sales (million \$) |
|-------------------------|-----------------------|
| Paramount Publishing | \$1,524 |
| Reader's Digest | 1,407 |
| Time Warner | 1,137 |
| Random House | 1.097 |
| HarperCollins | 979 |
| Bantam/Literary Guild | 900 |
| Harcourt Brace | 867 |
| Thomson Publishing | 793 |
| | 727 |
| Addison-Wesley, Penguin | 680 |

SOURCE: SIMBA Information, Inc.

U.S. Industrial Outlook 1994-Printing and Publishing

has spurred demand for books with spiritual themes. Music publishing has a small but stable market, with price increases accounting for most of its growth. University press publishers benefitted from increased library funding in 1993, but expect future expansion to come from shipments of their materials in CD-ROM formats. Publishers of reference works have moved heavily into electronic publishing, using both CD-ROM and computer software to expand markets for their products.

INTERNATIONAL COMPETITIVENESS

Foreign markets for U.S. books showed little growth in 1993, with U.S. exports of \$1.7 billion just 3 percent ahead of exports for 1992. Continued weakness in the economies of Canada, Japan, Australia, and most EC countries restrained demand for U.S. books. An exception to this general trend was the United Kingdom, which accounted for U.S. book purchases estimated at \$250 million in 1993, an increase of 10 percent over 1992.

International demand for U.S. books is a function of exchange rates, fluency with the English language, educational and occupational levels, and interest in the American experience. Combined shipments of U.S. textbooks and technical, scientific, and professional books account for 50 percent of U.S. book exports, reaching foreign college, university, library, and institutional markets in more than 120 countries. Exports of U.S. adult and juvenile trade books exceeded \$500 million in 1993, but many U.S. publishers capture foreign markets for these books through the sale of rights and translations rather than direct exports.

Unlike their European colleagues, U.S. book publishers have not made significant investments abroad. The large British, Dutch, French, and German presence in the U.S. book market is not matched by an American presence overseas. While the

U.S. Trade Patterns in 1992 Book Publishing SIC 2731

(in millions of dollars, percent)

| Expo | rts | Imports | | | | |
|--------------------|-------|------------|--------------------|-------|--------|--|
| nti promo baana | Value | Share | | /alue | Share | |
| Canada and Mexico | 753 | 46.0 | Canada and Mexico | 111 | 11.2 | |
| European Community | 391 | 23.9 | European Community | 406 | 41.0 | |
| Japan | 90 | 5.5 | Japan | 92 | 9.2 | |
| East Asia NICs | 99 | 6.1 | East Asia NICs | 321 | 32.4 | |
| South America | 37 | 2.3 | South America | 22 | 2.2 | |
| Other | 265 | 16.2 | Other | 39 | 4.0 | |
| World Total | 1,636 | 100.0 | World Total | 990 | 100.0 | |
| | Т | op Five Co | ountries | | a e et | |
| | Value | Share | 1 | /alue | Share | |
| Canada | 702 | 42.9 | United Kingdom | 206 | 20.8 | |
| United Kingdom | 228 | 14.0 | Hong Kong | 187 | 18.9 | |
| Australia | 122 | 7.5 | Japan | 92 | 9.2 | |
| Japan | 90 | 5.5 | Singapore | 89 | 9.0 | |
| Germany | 51 | 3.1 | Canada | 86 | 8.7 | |

See "Getting the Most Out of Outlook '94" for definitions of the country groupings. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration.

United States is the world's largest book exporter, U.S. investment in foreign publishing operations has lagged for the past decade, the result of unfavorable exchange rates and a perception of generally unattractive market conditions overseas.

Book imports by U.S. purchasers totaled \$1 billion in 1993, a 3 percent gain from 1992. Imports of trade books dominate the U.S. market for foreign works, with combined shipments of textbooks and technical, scientific, and professional books representing about 23 percent of the U.S. import total. The weak U.S. dollar discourages imports, but 1993 book shipments from Germany exceeded \$75 million, a 75 percent increase over 1992. The leading suppliers of books to the U.S. are Canada, Germany, Hong Kong, Japan, Singapore, and the United Kingdom, whose combined shipments in 1993 represented 75 percent of total U.S. imports.

Outlook for 1994

An improved economy should lift shipments of the U.S. book publishing industry to \$20.3 billion in 1994, a 4 percent increase over 1993. Growth in U.S. economic activity should yield more revenues to fund schools and libraries and enlarge these vital markets for U.S. textbooks, reference, and university press books, as well as for technical, scientific, and professional books. Approximately 1 million new students should enter U.S. elementary and secondary schools in 1994, but enrollments at the nation's colleges and universities should remain unchanged from 1993.

Sales of adult and juvenile trade books should benefit from higher U.S. disposable personal income in 1994, and from continued expansion in the number of retail book outlets. Markets for book club and mail-order publications should remain unchanged in 1994, though competition with retail outlets should intensify. Expanding sales of religious books is largely dependent on membership trends in organized religious bodies, with modest gains anticipated in 1994.

Employment in book publishing should increase to 77,000 in 1994, a gain of 1,000, primarily in editorial, marketing and administrative positions. While payroll costs will increase in 1994, competition among publishers' suppliers should hold typesetting and other manufacturing costs—for paper, printing, and binding—to modest gains over 1993.

Long-Term Prospects

A combination of favorable factors is expected to substain growth in shipments of the U.S. book publishing industry at an average annual rate of 3.5 percent over the next five years. The book industry's output of approximately 50,000 titles per year should increase in response to growth in the number of retail book outlets and the square footage allocated for display. An improved economy should yield more revenues for U.S. schools and libraries, expanding markets for textbooks, reference works, and scholarly materials. Book publishers should experience more merger and acquisition activity in light of the increased capital requirements necessary to expand positions in traditional book markets, as well as to enter new markets for nonprint media.

Demographics are critical determinants of U.S. book demand, and very positive conditions are anticipated over the period 1994–1998. The U.S. population should expand by more than 12 million, with more than 1 million entering the important book buying group aged 15 to 44. Household formations should increase by 5 million, reaching 101 million by 1998. Combined enrollments of elementary and secondary schools should grow by almost 5 million, with an additional 736,000 students entering U.S. colleges and universities. The expansion of educational attainment is an important feature of the U.S. population and linked strongly with U.S. demand for books. High school graduates grew from 62 percent of the U.S. population in 1975 to 78 percent in 1990. Over the same period, the proportion of college graduates increased from 14 percent to 21 percent. These desirable trends should continue for the balance of the decade.

Publishers' revenue streams and cost structures should undergo considerable change in the years immediately ahead. Success in capturing larger portions of U.S. educational markets will require more editorial focus on placing materials on CD-ROM and other electronic media. Textbooks as the primary instructional instrument will be increasingly supplemented by nonprint materials. Library budgets will expand to accommodate CD-ROM and on-line database operations, to the possible detriment of publishers' offering reference and informational materials only in printed formats. Publishers should expect to find environmental concerns raising their costs of operation. More use of recycled paper and acid-free paper for library markets will increase costs. Recycling of books, especially mass market paperbound books, will become an important issue.

U.S. book publishers will have new incentives to establish a larger international presence. Successful conclusion of the North American Free Trade Agreement (NAFTA) should encourage more trade with Mexico and focus U.S. marketing efforts on other Latin American countries. Greater international copyright protection will be afforded U.S. books by completion of the Uruguay Round of the General Agreement on Tariffs and Trade (GATT), expanding book markets in Asia, the Middle East, and Eastern Europe where copyright enforcement provisions require strengthening. Concluding these trade negotiations should provide U.S. book publishers with opportunities for expanding direct exports and obtaining more royalties from the sale of foreign rights and translations. In addition, the negotiations should further encourage leading U.S. publishers to consider direct investment in appropriate foreign markets .- William S. Lofquist, Office of Consumer Goods (202) 482-0379, September 1993.

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COMMERCIAL PRINTING

After posting two years of sales declines, shipments of the U.S. commercial printing industry (SIC 275) rose to \$52.6 billion in 1993, an inflation-adjusted increase of 2 percent from 1992. The U.S. economic recovery that began in the final two quarters of 1993 lifted shipments of catalogs, newspaper inserts, and direct-mail materials, but failed to revive magazine advertising, which remained at depressed 1991-92 levels.

Printing industry employment totaled 555,000 in 1993, a marginal increase over 1992, and was still below the industry's peak of 580,000 attained in 1990. The addition of 2,000 printing production workers came essentially in 1993's second half, a response to increased demand for printed products that stemmed from an improving economy. But the number of commercial printing establishments fell to an estimated 37,000, with mergers and plant closings most pronounced among the industry's smallest firms-those with fewer than 20 employees.

Commercial printers' profits improved in 1993 over 1992. Labor, material, and supply costs remained stable for most of the year, but paper prices edged lower, reflecting excess capacity at U.S. mills and continued weakness in paper demand. Improvements in productivity, the result of more efficient work-flow systems and equipment utilization, also led to 1993's increased profit margins.

Industry's Transition Brings Challenges

The past decade has brought a series of challenges to the commercial printing industry, including environmental concerns, new developments in printing technology, and growth in demand for non-print media. These challenges have focused the industry's attention on material and supply requirements, workforce training needs, and capital expenditure levels.

ENVIRONMENTAL PROFILE

Since the manufacture and sale of printed products involves the use of air, water, and land, commercial printers are extremely conscious of their relationship with the environment. Meeting increased environmental requirements has contributed to the higher costs printers pay for materials and supplies: to 45 percent of total costs in 1992 compared with 40 percent in 1972. Paper made without chlorine or acid and which contains moderate quantities of recyclable materials costs appreciably more than ordinary printing paper. Nontoxic printing inks and printing press fountain solutions, with volatile organic compound levels either reduced or removed, also raise costs.

Advances in printing technology have changed the industry's workforce. The continued automation of the printing process, through application of computer-related electronics to presses and other machinery and equipment, reduces the need for craft-oriented employees, but raises demand for workers with electronic skills. Training programs in the past were largely craft-oriented, union-run activities, but today fewer than one

| Trends and Forecasts: (| Commercial Printing (SIC 275) | |
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|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------------------------|-------------|--------------|--------------|------------|------------|
| The second s | | | | | | | | | Percent Change (1989–1994) | | | | | |
| item | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 ¹ | 1993 ² | 1 994 ³ | 88-89 | 89-90 | 90-91 | 91-92 | 92-93 | 93-94 |
| Industry Data Value of shipments ⁴ | 44,786 | 47,460 | 50,312 | 52,904 | 51,948 | 51,115 | 52,595 | 55,800 47,651 | 6.0 1.3 | 5.2 2.4 | -1.8 -3.5 | -1.6 | 2.9 2.1 | 6.1 2.7 |
| Value of shipments (1987\$) Total employment (000) | 44,786 554 401 | 46,065 557 402 | 46,653 569 414 | 47,782 580 421 | 46,129 556 401 | 45,437 553 398 | 46,376 555 400 | 565 409 | 2.2 | 1.9 | -4.1 | -0.5 -0.7 | 0.4 0.5 | 1.8 2.3 |
| Production workers (000) Average hourly earnings (\$) Capital expenditures | 9.93 2.013 | 10.01 | 10.34 2,135 | 10.47 | 10.75 2.051 | 10.91 | 11.10 | = | 3.3 12.5 | 1.3 4.0 | 2.7 -7.6 | 1.5 | 1.7 | - |
| Product Data Value of shipments ⁵ | 43,995 | 46,597 | 49,621 | 52,572 | 51,761 | 50,985 | 52,465 | 55,665 | 6.5 | 5.9 3.2 | -1.5 | -1.5 | 2.9 | 6.1 2.8 |
| Value of shipments (1987\$) Trade Data | 43,995 | 45,215 | 45,997 | 47,466 | 45,949 | 45,260 | 46,165 | 47,435 | 1.7 | | -5.2 | 5.2 | 5.2 | 7.5 |
| Value of imports | = | = | 371 811 | 393 772 | 420 1,026 | 442 1,056 | 465 1,160 | 500 1,275 | Ξ | 5.9 -4.8 | 32.9 | 2.9 | 9.8 | 9.9 |

¹Estimate, except exports and imports.

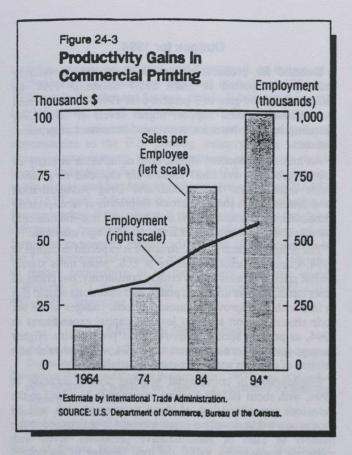
²Estimate.

³Forecast

⁴Value of all products and services sold by establishments in the commercial printing industry.

5Value of products classified in the commercial printing industry produced by indus

SOURCE: U.S. Department of Commerce: Bureau of the Census, International Trade Administration (ITA). Estimates and forecasts by ITA.



out of every five employees is represented by organized labor. Printing managers are seeking persons with broader skills, but to date have had limited success in attracting qualified candidates from the nation's vocational schools.

Growth in U.S. demand for non-print media, including electronic databases, CD-ROM disks, and audio and video cassettes, influences the capital investment decisions of U.S. printers. Printed products designed for mass audiences, such as catalogs, directories, and direct mail, are increasingly replaced by products targeted to less populous markets. This requires printing machinery and equipment with efficient, high-volume output levels, yet with minimal paper waste and short turnaround intervals between jobs. Capital expenditure levels increased in 1993 to an estimated \$2.2 billion, slightly higher than the recessionary level of 1991-92.

Diversity of Printed Products and Markets

The commercial printing industry uses a variety of processes—lithography (offset), letterpress, gravure, flexography, and screen printing—to reach local, regional, national, and international markets. Product shipments of the nation's 37,000 printers totaled an estimated \$52.5 billion in 1993, a 2 percent increase over 1992 in constant dollars. Printing by the lithographic method is by far the dominant process, accounting for 79 percent of the industry's shipments. Most U.S. printing establishments are small (80 percent have fewer than 20 employees) and serve primarily local or regional markets.

Demand for printed products is a function of general economic activity, personal consumption expenditures, business formations and transactions, and advertising expenditures. Print advertising takes many forms-direct mail, posters, newspaper inserts, shopping news—but combined shipments of \$21 billion in 1993 represented 40 percent of the total U.S. market for printed products. This product sector experienced virtually no growth over the 1991–92 recession, but rose by 2 percent in 1993 as the economy recovered. More than 90 percent of print advertising materials are manufactured by the lithographic process.

Revenues from magazine printing totaled \$7.4 billion in 1993, an increase of slightly less than 2 percent from 1992. A downturn in the number of advertising pages placed in U.S. magazines over the 1991–92 period was matched by a decline in printing receipts from this sector. Magazine printing accounts for 14 percent of total printing shipments, with all but the largest publications printed by the lithographic process. Gravure printers, with presses geared to print runs exceeding 1 million copies per issue, have contracts to print virtually all U.S. comic books and about onehalf of the 20 largest U.S. consumer publications.

Shipments of printed catalogs and directories were marginally affected by the 1991–92 recession, but surged 3 percent in 1993 to \$6.3 billion. The gradual disappearance of large, mass-audience catalogs has not had a significantly adverse effect. Such publications have been replaced by multi-mailings of more sharply focused catalogs, targeted to receptive, niche markets. Catalog and directory printing represents 12 percent of total industry shipments, with all but the largest publications printed by lithography.

Markets for label and wrapper printing have surged over the past decade, primarily the result of U.S. business demand for printed bar codes to control inventory. Shipments of label and wrapper printing in 1993 reached \$4.2 billion, a gain of 3 percent over 1992. This sector is dominated by the production of pressure-sensitive labels printed by flexography. Label and wrapper printing proved generally resistant to the recession and accounted for 8 percent of total printing shipments in 1993.

Printers of financial and legal documents were battered by the stock market downturn in 1987 and the paucity of debt/equity offerings in 1991, but shipments in 1993 totaled \$2.1 billion, an increase of more than 3 percent from 1992. This sector caters to banks, insurance firms, and brokerage houses, with receipts tied primarily to stock market activity. Significant consolidation of financial and legal printing firms occurred in the late 1980's, with profitability in the 1990's dependent on serving national and international clients from geographically dispersed printing locations.

A diversity of printed products is included in the category "all other printing," such as art prints, maps, lottery tickets, decals,

Table 2: Top 10 U.S. Commercial Printers, 1992

| Company | Sales (million \$) |
|--|-----------------------|
| R.R. Donnelly and Sons Company | \$3,650 |
| Deluxe Corporation | 1,375 |
| Quebecor Printing (USA) Corporation | 925 |
| World Color Press, Inc. | 838 |
| Ringier America, Inc. | 610 |
| Banta Corporation | 595 |
| Quad/Graphics, Inc | 565 |
| Treasure Chest Advertising Company, Inc. | 536 |
| | 500 |
| Sullivan Graphics, Inc | 488 |

SOURCE: Trade & Technology Press.

U.S. Industrial Outlook 1994—Printing and Publishing

U.S. Trade Patterns in 1992 Commercial Printing SIC 275

| millions of dollars, percer | ł |
|-----------------------------|---|

| rts | Imports | | | | |
|-------|--------------------------------------|---|---|--|--|
| Value | Share | N | /alue | Share | |
| 423 | 40.1 | Canada and Mexico | 164 | 37.2 | |
| 222 | 21.1 | European Community | 160 | 36.2 | |
| | 17.3 | Japan | 37 | 8.4 | |
| | 6.3 | East Asia NICs | 58 | 13.2 | |
| | 2.6 | South America | 1 | 0.1 | |
| 133 | 12.6 | Other | 22 | 4.9 | |
| 1,056 | 100.0 | World Total | 442 | 100.0 | |
| | 423 222 183 67 28 133 | Value Share 423 40.1 222 21.1 183 17.3 67 6.3 28 2.6 133 12.6 | Value Share Value 423 40.1 Canada and Mexico 222 21.1 European Community 183 17.3 Japan 67 6.3 East Asia NICs 28 2.6 South America 133 12.6 Other | Value Share Value 423 40.1 Canada and Mexico 164 222 21.1 European Community 160 183 17.3 Japan 37 67 6.3 East Asia NICs 58 28 2.6 South America 1 133 12.6 Other 22 | |

| Alle Markened Street | Value | Share | Classic Sciences | Value | Share |
|----------------------|-------|-------|------------------|-------|-------|
| Canada | 344 | 32.5 | Canada | 151 | 34.1 |
| Japan | 183 | 17.3 | Germany | 47 | 10.6 |
| United Kingdom | 83 | 7.9 | United Kingdom | 42 | 9.4 |
| Mexico | 79 | 7.5 | Japan | 37 | 8.4 |
| Germany | 47 | 4.4 | France | 33 | 7.5 |

See "Getting the Most Out of Outlook '94" for definitions of the country groupings. SOURCE: U.S. Department of Commerce: Bureau of the Census; International Trade Administration.

calendars, stamps, playing cards, menus and coupons. Total shipments of these items in 1993 approached \$11.5 billion, representing 22 percent of the printing industry's aggregate receipts. Although some individual products reach national and international markets, most items are printed by small- to medium-sized firms in response to local or regional needs.

INTERNATIONAL COMPETITIVENESS

Some of the factors critical to success in capturing domestic markets for printed products, including plant productivity, production workers' wages, and costs of supplies and materials, are outweighed by geographic proximity and exchange-rate considerations when addressing international markets. In common with other industrialized nations, the U.S. has both a low ratio of imports to apparent consumption (1 percent) and a low ratio of exports to domestic production (2 percent). Given relative geographic accessibility and a favorable exchange rate, penetrating foreign markets for printed products depends on transportation costs, time constraints, trade barriers, and service availability.

Foreign markets for products of the U.S. commercial printing industry have expanded steadily since 1990, with exports in 1993 approaching \$1.2 billion. International demand for U.S. printing is split three ways: financial, legal, and security materials; trade advertising items, including catalogs and posters; and all other products, including decals, labels, playing cards, pictorial, and other items. Canada is by far the major market for U.S. printing, accounting for one-third of total exports, but combined shipments to Japan, the United Kingdom, Mexico, and Germany also represent one-third of total U.S. printed product exports.

Imports of printed products by the U.S. consist primarily of trade advertising materials, including tourist literature, posters, catalogs, and pictorial matter. The principal source is Canada, which accounts for 40 percent of the total, with combined shipments from Germany, the United Kingdom, and Japan representing another 25 percent. The United States imported printed products valued at \$465 million in 1993, an increase of slightly more than 5 percent over 1992 in nominal dollars.

Outlook for 1994

Demand for products of the U.S. commercial printing industry is expected to reach \$55.7 billion in 1994, an inflation-adjusted gain of 3 percent over 1993. Recovery from the recession should support higher levels of advertising spending by U.S. business, a strong determinant of printers' fortunes.

An improved economy should raise demand for virtually all printed products, but some sectors are expected to advance faster than others. New Food and Drug Administration food-labeling rules should increase shipments of label-printing firms. Greater expansion of U.S. businesses into international markets should aid printers of financial and legal materials.

The printing industry's cost structure is expected to change in 1994. Continued excess capacity at U.S. paper mills should inhibit price increases in this critical commodity, but prices of other items, such as ink, film, plates, and chemicals should rise in line with an improved economy. Recent changes in the tax code should support a higher level of capital expenditures in 1994, as printers seek to improve plant productivity. Higher postage rates are not anticipated in 1994, which should help printers of catalogs and direct-mail materials.

Employment in commercial printing should increase in 1994, with about 10,000 workers expected to be added to the industry's payrolls. Most of these new employees will be production workers; only a small increase is anticipated in the number of sales or administrative personnel. Even with moderate employment gains, the total number of employees (565,000 in 1994) will likely remain below the peak level of 580,000 attained in 1990.

Long-Term Prospects

As the economy continues to strengthen, commercial printers should find shipments increasing at an average annual rate of 3 percent through 1998 in constant dollars. Since advertising expenditures represent two-thirds of the industry's receipts, a return to higher levels of economic growth and improved business and consumer confidence are critical to the industry's long-term prospects.

Commercial printers' costs, held in check in the early 1990's as a result of the recession, are expected to rise during the balance of the decade. Hiring and training a more electronically oriented workforce will pit the industry against other manufacturing firms in competition for the best employees in what is anticipated to be a shrinking U.S. labor pool. As U.S. mills work off excess paper supply, paper prices should firm but essentially stabilize in response to competitive pressures from paper sources offshore. Anticipated postal rate increases during the period 1995-96 will add to the costs of printing and distributing catalogs and direct-mail materials. But the industry's largest cost increases are expected to come from meeting more stringent environmental standards. Greater expenditures for waste management, such as collecting and recycling printed products, will be added to already substantial expenses for air and water pollution control.

Printers' rising costs through 1998 should be mitigated by growth in demand for printed products. The U.S. population is forecast to increase by more than 12 million over the period 1993–98, thus enlarging the industry's markets. Approximately 5 million new U.S. households should be formed over this period, creating new markets for print advertising materials. including magazines, catalogs, and direct mail. An estimated 2 million new U.S. businesses will start up between 1994 and 1998, expanding demand for tags, decals, labels, and financial/ legal materials, as well as for an array of advertising items.

The proliferation of print worldwide provides challenging opportunities to the U.S. printing industry. Joint ventures, licensing arrangements, direct investment, and exports should become increasingly familiar options to U.S. printers pursuing international markets. Anticipated completion of both NAFTA and GATT will underscore the need for U.S. participation in foreign markets if the industry is to play a vital role in the global information community. The growing dissemination of information in nonprint formats will require all the resources of the U.S. commercial printing industry—the world's largest to remain competitive in an increasingly electronic world. *—William S. Lofquist, Office of Consumer Goods (202)* 482–0379, September 1993.

Additional References

- (Call the Bureau of the Census at (301) 763-4100 for information on ordering Census documents)
- Commercial Printing and Manifold Business Forms, 1987 Census of Manufactures, MC87-I-27B. Bureau of the Census, U.S. Department of Commerce, Washington, DC 20233.
- Statistics for Industry Groups and Industries, 1991 Annual Survey of Manufactures, M91(AS)-1. Bureau of the Census, U.S. Department of Commerce, Washington, DC 20233.
- Value of Product Shipments, 1991 Annual Survey of Manufactures, M91(AS)-2. Bureau of the Census, U.S. Department of Commerce, Washington, DC 20233.
- Employment and Earnings, Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC 20212. Telephone: (202) 606-6555.

- Industrial Production and Capacity Utilization, SIC 274-6.8,9, Job Printing. Industrial Output Section, Mail Stop #82, Division of Research and Statistics, Board of Governors of the Federal Reserve System. Washington, DC 20551. Telephone: (202) 452-2570.
- Producer Price Indexes, Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC 20212. Telephone: (202) 606-7716.
- American Printer, Maclean Hunter Publishing Co., 29 N. Wacker Dr., Chicago, IL-40606. Telephone: (312) 726–2802.
- Graphic Arts Literature Abstracts, Rochester Institute of Technology, One Lomb Memorial Dr., Rochester, NY 14623. Telephone: (716) 475-2791.
- Graphic Arts Monthly, Cahners Publishing Co., 249 West 17th St., New York, NY 10011. Telephone: (212) 463-6828.
- Graphic Communications World, Green Sheet Communications, Inc., P.O. Box 727, Hartsdale, NY 10530. Telephone: (914) 472-3051.
- High Volume Printing, Innes Publishing Co., P.O. Box 368, 425 Huehl Rd., Building 11, Northbrook, IL 60062. Telephone: (312) 564-5940.
- Printing Business Report, National Association of Printers and Lithographers, Inc., 780 Palisade Ave., Teaneck, NJ 07666. Telephone: (201) 342-0707.
- Printing Impressions, North American Publishing Co., 401 N. Broad St., Philadelphia, PA 19108. Telephone: (215) 238-5300.
- Printing News, Cahners Publishing Co., 249 West 17th St., New York, NY 10011. Telephone: (212) 463-6727.
- Printing 2000, Printing Industries of America, Inc., 100 Daingerfield Rd., Alexandria, VA 22314. Telephone: (703) 519-8100.
- Printmarkets, Trade & Technology Press, 26 Sixth St., Suite 262, Stamford, CT 06905. Telephone: (203) 323–3385.
- Print Market Outlook, Cahners Publishing Co., 275 Washington St., Newton, MA 02158. Telephone: (617) 964–3030.
- Ratio Studies, Printing Industries of America, Inc., 100 Daingerfield Rd., Alexandria, VA 22314. Telephone: (703) 519-8100.
- Techno-Economic Market Profiles, Graphic Arts Technical Foundation, Inc., 4615 Forbes Ave., Pittsburgh, PA 15213. Telephone: (412) 621-6941.
- What's New(s) in Graphic Communications, Michael H. Bruno, 5129 Wedge Court East, Bradenton, FL 34203. Telephone: (813) 751-4838.

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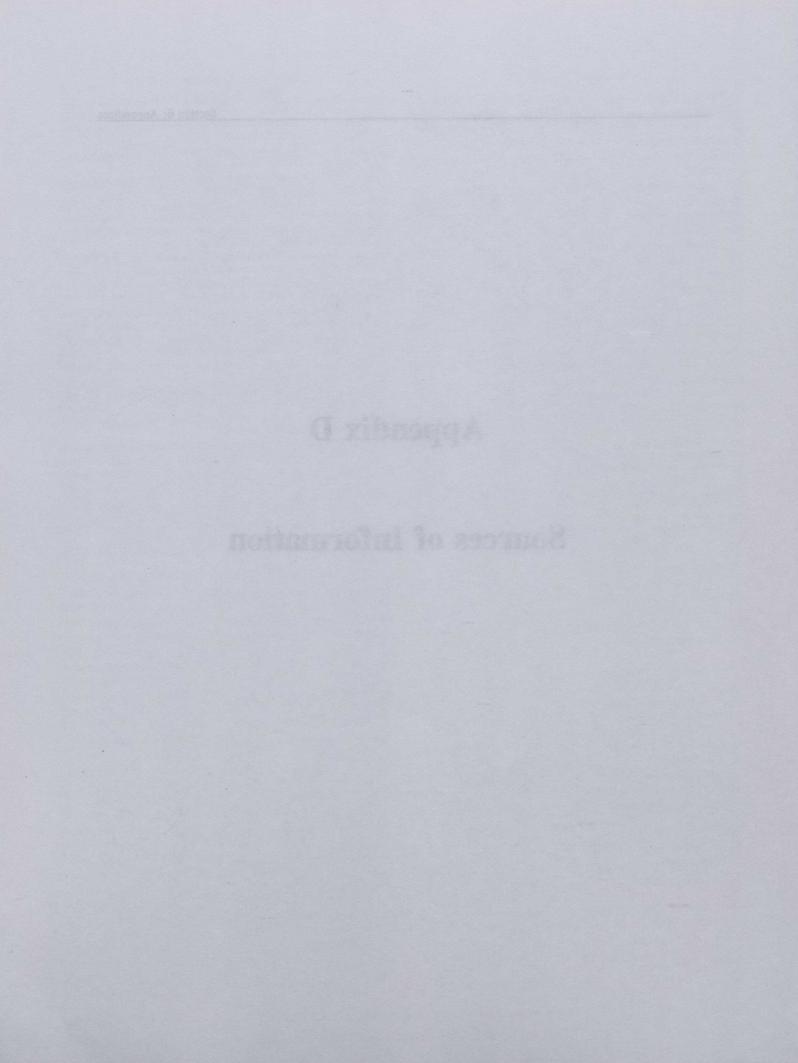
Portial list of available documents used in the preparation of study)

U.S. Department of Labor:

- Braployce Beachts Survey
- Haploven Benefits-in Small Private Esizbilishments
- Handbook of Labor Signistics
- County Business Review
- Monthly Labor Review
- Occupational Gabool Liand

Appendix D

Sources of Information



OTHER SOURCES OF INFORMATION

For Federal Government Documents:

(Partial list of available documents used in the preparation of study)

U.S. Department of Labor:

- Employee Benefits Survey
- Employee Benefits in Small Private Establishments
- Handbook of Labor Statistics
- County Business Review
- Monthly Labor Review
- Occupational Outlook Handbook
- Statistical Abstract of the United States

U.S. Department of Commerce:

- Annual Survey of Manufacturers
- Census of Manufacturers
 - (a) Industrial Series (by SIC Codes)
 - (b) Geographic Series (by State)
- Economic Series
 - (a) Large Companies (by SIC Codes)
 - (b) Company Summaries (by SIC Codes)
- County Business Patterns
- U.S. Industrial Outlook 1994 (annual)
- Survey of Current Business

Contact:

Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 For All Governments Serial Publications: (Available by interlibrary loans)

Contact:

University of the State of New York, New York State Library, Collection, Acquisition & Processing, Cultural Education Center, Albany, NY 12230

Tel: (518) 474-7492

Printing Industries of America, 100 Dangerfield Road, Alexandria, VA 12314

Tel: (703) 519-8100 Fax: (103) 548-3227

National Association of Printers & Lithographers 180 Parinatics Ave., Pearstell, NJ 07866

Appendix E

Selected U.S. Printing Associations

Tel: (404) 314 6135 Technicsi Association of the Couplic Arts,

P.O. Box 3004. Federal Station, Rechester NY 14614 Section of Amendices

For All Covernments, Serial Pablications: (Available by marridizary lowes)

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University of the State of New York, -New York Sens Library, Collection, Acquisition & Processing, Cultural Education Center, Albury, NV: 12230

(81: (518) 474-7492

Appendix H

Selected U.S. Printing Associations

PROFESSIONAL ASSOCIATIONS AS OTHER INFORMATION SOURCES

Printing Industries of America, Inc., 100 Dangerfield Road, Alexandria, VA 22314

Tel: (703) 519-8100 Fax: (703) 548-3227

National Association of Printers & Lithographers 780 Palisades Ave., Teaneck, NJ 07666

Graphics Philately Association, Division of Topical Study Unit of the American Topical Association, N50th Street, Milwaukee, WI 53216

Screen Printing Association, International 10015 Main Street, Fairfax, VA 22031

Tel: (703) 385-1335

Technical Associations of the Pulp & Paper Industries 1 Dunwoody Park, Atlanta, GA 30338

Tel: (404) 394-6130

Technical Association of the Graphic Arts, P.O. Box 3064, Federal Station, Rochester, NY 14614

PROPESSIONAL ASSOCIATIONS AS OTHER INTORMATION SOURCES

Princing Industries of America, Inc., 100 Dasgerfield Road, Alexandria, VA 22314

> Tel: (703) 519-8100 Fax: (703) 548-3127

Vational Association of Frances & Libographers 230 Paleades Ave., Desneck, MJ 07666

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> > Tel: (2413) 365-1735

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Tet: (494) 394-6130

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Section 6: Appendices

Appendix F

Magazine Literature Listing

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Appendix F

Magazine Literature Listing

Magazine Literature Listing

American Printer, MacLean Hunter Publishing Company, 29 N. Wacker Dr., Chicago, IL 60606. Telephone: (312) 726-2802.

Printing Business Report, National Association of Printers and Lithographers, Inc., 780 Palisade Ave., Teaneck, NJ 07666. Telephone: (201) 342-0707.

Graphics Arts Literature Abstracts, Rochester Institute of Technology, One Lomb Memorial Dr., Rochester, NY 14623. Telephone: (716) 475-2791.

Graphic Arts Monthly, Cahners Publishing Company, 249 West 17th St., New York, NY 10011. Telephone: (212) 463-6828.

Graphic Communications World, Green Sheet Communications, Inc., P.O. Box 727, Hartsdale, NY 10530. Telephone: (914) 472-3051.

High Volume Printing, Innes Publishing Company, P.O. Box 368, 425 Huehl Rd., Bldg. 11, Northbrook, IL 60062. Telephone: (312) 564-5940.

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Printing News, Cahners Publishing Company, 249 West 17th St., New York, NY 10011. Telephone: (212) 436-6727.

Printing 2000, Printing Industries of America, Inc., 100 Daingerfield Rd., Alexandria, VA 22314. Telephone: (703) 519-8100.

Print Market Outlook, Cahners Publishing Company, 275 Washington St., Newton, MA 02158. Telephone: (617) 964-3030.

Ratio Studies, Printing Industries of America, Inc., 100 Daingerfield Rd., Alexandria, VA 22314. Telephone: (703) 519-8100. Blue Book of Printing and Graphic Arts Buyers, A.F. Lewis and Co., 79 Madison Ave., New York, NY 10016.

Instant & Small Commercial Printers, Innes Publishing Co., 425 Huel Rd., Bldg. 11, Northbrook, IL, 60062-2319.

Canadian Printer, MacLean Hunter Ltd., MacLean Hunter Bldg, 777 Bay At., Toronto, Ont. M5W1A7 Canada. Telephone: (416) 596-5000.

Anao Tueden, Frantine Industries of America, Itz., 100 Daingerfield 24., Acrosofyla, VA 22214, Telephones (7020 349-8100. REPORT OF NEW YORK STATE.

Section 6: Appendices

Appendix G

New York State Printing Industries Association Members

Shan-Reak tols Reissanz and Graphic Any Breeze, A.F. Lawis and Co. 79 Madisop Ave., New York, NY 19916.

Instant & Swell Commercial Frances, Innes Publishing Co., 425 Mart Rd., 2003. 11. Northboock, IL, 60002-2319.

Conadian Printer, MacLean Hauser Ltd., MacLean Horster Build, 777 Bay Pat., Peronan-Dat. M5W1A7, Canada, "Pelepiseum: 04554-55900.

Appendix G

New York State Frinting Industries Association Members

PRINTING INDUSTRIES ASSOCIATION OF NEW YORK STATE, INC.

MEMBERSHIP LISTING

ACTIVE MEMBERS

Acme Press

306-314 Union Street Schenectady, NY 12305 (518) 374-4536 Mr. Michael Cesar

Ahrens Graphics, Inc.

4011 Sheridan Drive Buffalo, NY 14226 (716) 632-2491 Mr. Mark Ahrens

Albion-Holley Pennysaver

170 N. Main Street P. O. Box 231 Albion, NY 14411 (716) 589-5641 Ms. Karen Mitchell

Alchar Printing

602 Pawling Avenue Troy, NY 12180 (518) 274-2421 Mr. Thomas Dowd

Allsafe Company

1105 Broadway P. O. Box 825 Buffalo, NY 14240 (716) 896-4515 Mr. Ed Pokornowski

Alternative Ink, Ltd.

35 Fuller Road Albany, NY 12205 (518) 458-9000 Mr. John Hendricks

Amsterdam Printing

Wallins Corners Road Amsterdam, NY 12010 (518) 842-6000 Mr. Steven Singer

Ansel Press, Inc.

126 S. Elmwood Avenue Buffalo, NY 14202 (716) 853-4480 Mr. Larry Borga

Arkwright Printing Co., Inc.

19 Norton Place Fredonia, NY 14063 (716) 672-5686 Mr. Ronald Pacos

Arsenal Packaging Services

2345 Walden Avenue P. O. Box 1089 Buffalo, NY 14240 (716) 681-4370 Mr. Dwight Gould

Artcraft-Burow Color Printers

80 Metcalfe Street Buffalo, NY 14206 (716) 854-3241 Ms. Laura Weyler

Banconsumer Service, Inc.

275 Fillmore Avenue Tonawanda, NY 14150 (716) 693-3400 Mr. Nick Roth Active Members (contd.)

Barry & Wilson Printing Co.

80 West Valley Road Lake Placid, NY 12946 (518) 523-2403 Mr. Lawrence Barry

Bates Jackson Engraving

19-21 Elm Street Buffalo, NY 14205 (716) 854-3000 Mr. Edward Flammer

Benchemark Printing, Inc.

31 Lafayette Street Schenectady, NY 12301 (518) 393-1361 Mr. Robert Kosineski

Benton Announcements

3006 Bailey Avenue Buffalo, NY 14215 (716) 836-4100 Mr. Michael Guerra

Bok Industries, Inc.

8741 Lake Road P. O. Box 10 Leroy, NY 14482 (716) 768-8174 Mr. John Quincey

Boncraft, Inc.

4222 S. Taylor Road Orchard Park, NY 14127 (716) 662-9720 Mr. Raymond Bubar

M.M. Bork & Sons, Inc.

80 Metcalfe Street Buffalo, NY 14206 (716) 854-7980 Mr. Mark Gregory

Boyd Printing Company

49 Sheridan Avenue P. O. Box 1413 Albany, NY 12201 (518) 436-9686 Ms. Jane Carey

Breitwieser Printing Corp.

1800 Broadway Buffalo, NY 14212 (716) 895-7370 Mr. James Breitwieser

Brennan's Quick Print, Inc.

278 Bay Road Queensbury, NY 12804 (518) 793-4999 Mr. Thomas Brennan

Brodock Press, Inc.

502 Court Street Utica, NY 13502 (315) 735-9577 Mr. Craig Brodock

Brown Printing Company

363 Fifth Avenue P. O. Box 388 Troy, NY 12182 (518) 235-4080 Mr. John Parry, Jr.

Buffalo Lithograph Co., Inc.

36 Mason Street Buffalo, NY 14213 (716) 883-8016 Mr. George Zenger

C.C.S. Princeton

521 Cornwall Avenue Buffalo, NY 14215 (716) 837-0800 Mr. Ted Majewski

Active Members (contd.)

Canfield & Tack, Inc.

925 Exchange Street Rochester, NY 14608 (716) 235-7710 Mr. Daniel Mahany

Canfield, G. W. & Son Litho

600 Plant Street P. O. Box 874 Utica, NY 13503 (315) 735-7575 Mr. Gene Canfield

Canterbury Press

301 Mill Street P. O. Box 4299 Rome, NY 13440 (315) 337-5900 Mr. David Johnson

Carton Craft Corp.

115 Ash Street Buffalo, NY 14204 (716) 852-7910 Mr. Timothy Ortolani

Case-Hoyt Corp.

100 Beaver Road P. O. Box 24001 Rochester, NY 14624 (716) 889-5670 Mr. Kevin Kirk

Catskill Enterprises

138 Grandview Avenue Catskill, NY 12414 (518) 943-2660 Mr. Gordon Gibson

Charm Graphics, Inc.

25 Boxwood Lane P. O. Box 211 Buffalo, NY 14225 (716) 668-5223 Mr. Richard Maussner

Church Bulletins of Buffalo

745 Englewood Avenue Buffalo, NY 14223 (716) 836-2527 Ms. Rebecca Lee

Clarence Graphics, Inc.

9870 Main Street Clarence, NY 14031 (716) 759-8007 Mr. Donald Albee

Clarity Publishing, Inc.

3 Enterprise Drive Albany, NY 12204 (518) 465-4591 Mr. Thomas Clemente

The Clinton Press, Inc.

500 W. 12th Street Erie, PA 16501 (814) 454-7415 Mr. Wayne Zimmer

Cohber Press, Inc.

1000 John Street P. O. Box 93100 Rochester, NY 14692 (716) 475-9100 Mr. Howard Webber

The Colad Group, Inc.

701 Seneca Street Buffalo, NY 14210 (716) 849-1776 Mr. William Brosnahan

Color Tech Litho

257 Warren Street Glens Falls, NY 12801 (518) 793-4437 Mr. Christopher Belnap

Active Members (contd.)

Coneco Laser Graphics

58 Dix Avenue P. O. Box 3255 Glens Falls, NY 12801 (518) 793-3823 Ms. Jean Cone

Cox Graphics

1057 Kensington Avenue Buffalo, NY 14215 (716) 832-2578 Mr. Kevin Preston

Creative Printing

2011 E. Main Street P. O. Box 210 Endicott, NY 13760 (607) 748-7491 Mr. Dann Lewis

Delft Printers

92 Holland Avenue Lancaster, NY 14086 (716) 683-1100 Mr. Ronald Dimpfl

Delta Printing & Graphics

3347 Delaware Avenue Kenmore, NY 14217 (716) 874-7616 Mr. Ron Biedenbach

DeRidder, Inc.

175 Humboldt Street Rochester, NY 14610 (716) 482-1500 Mr. Joseph O'Heaney

Diamond Packaging

111 Commerce Drive P. O. Box 23620 Rochester, NY 14692 (716) 334-8030 Mr. Harry Voss

Dodge Graphic Press

1501 Broad Street Utica, NY 13501 (315) 735-9266 Mr. Mario Mannella

Dual Printing, Inc. 340 Nagel Drive Cheektowaga, NY 14225 (716) 684-3825 Mr. William Sabio

The DuBois Press

100 College Aveue Rochester, NY 14607 (716) 473-1660 Mr. J. Richard Dunlevy

Dupli Graphics Corp.

360 W. Jefferson Street P. O. Box 1318 Syracuse, NY 13201 (315) 472-1316 Mr. Kemper Matt

Elmira Quality Printers

1323 College Avenue Elmira, NY 14901 (607) 733-4695 Mr. Norman Griswold

Farthing Press

260 Oak Street Buffalo, NY 14203 (716) 852-4674 Mr. David Snyder

Finger Lakes Press, Inc.

185 Clark Street Auburn, NY 13021 (315) 252-7583 Mr. Gerard Mirabito, Sr.

Fort Orange Press

31 Sand Creek Road P. O. Box 828 Albany, NY 12201 (518) 489-3233 Mr. Michael Witko

Fuller's Printing Corp.

1682 Central Avenue Albany, NY 12205 (518) 869-9036 Mr. James Fuller

Gintzler Graphics, Inc.

100 Lawrence Bell Drive Williamsville, NY 14221 (716) 631-9700 Mr. Franklin J. Nice

Gooding Co., Inc.

10 Gooding Street Lockport, NY 14094 (716) 434-5501 Mr. Gerald Hace

Goodrich Printing Co.

9515 Clarence Center Road Clarence Center, NY 14032 (716) 741-3131 Mr. Anthony Silvestro

Graphic Controls Corp.

189 Van Rensselaer Street P. O. Box 1271 Buffalo, NY 14240 (716) 853-7500 Mr. Patrick Crotty

Graphtrix, Inc.

127 S. Long Street Williamsville, NY 14221 (716) 634-0121 Mr. Gregory Orffeo

Great Lakes Prep, Inc.

1099 Jay Street Rochester, NY 14611 (716) 328-4480 Mr. Randy Allen

Grover Cleveland Press, Inc.

4160 N. Bailey Avenue Amherst, NY 14226 (716) 832-2211 Mr. Jim Degen

Hamilton Printing Company

579 Columbia Turnpike P. O. Box 232 Rensselear, NY 12144 (518) 732-4491 Mr. Phillip Billow

Hammer Lithograph Corp.

330 Metro Park Rochester, NY 14623 (716) 424-3880 Mr. James Hammer

Hodgins Printing Co., Inc.

56 Harvester Avenue P. O. Box 636 Batavia, NY 14021 (716) 343-4429 Mr. Michael Hodgins

Holling Press, Inc.

501 Washington St. Buffalo, NY 14203 (716) 854-5100 Mr. Brian Maher

Howell, F. M. & Company

79 Pennsylvania Avenue P. O. Box 286 Elmira, NY 14902 (607) 734-6291 Mr. George Howell

Impco

100 Rockwood Street Rochester, NY 14610 (716) 473-1432 Ms. Chris Blake

Impco Mail Marketing

29 Depot Street Buffalo, NY 14206 (716) 847-6415 Mr. Christopher Rice

In & Out Printing, Inc.

630 Main St. M.P.O. Box 2066 Niagara Falls, NY 14302 (716) 285-6266 Mr. Edward Gilbert

Jacobs Press, Inc.

77 Columbus Street P. O. Box 580 Auburn, NY 13021 (315) 252-7166 Mr. Michael Trapani

Jefferson Rehabilitation Center

615 W. Main Street Watertown, NY 13601 (315) 782-0330 Ms. Amy Turnbull

Jerome Rapid Print Inc.

50 Beaver Street Albany, NY 12207 (518) 463-3231 Mr. Clarence Rockenstire

Keith Clark, Inc.

101 O'Neil Road Sidney, NY 13838 (607) 563-9411 Mr. Joseph Forgiano KNE Printing, Inc. 439 N. Pearl Street Albany, NY 12204 (518) 436-4769 Mr. David Kidd

KTB Associates, Inc.

1 Tomsons Road Saugerties, NY 12477 (914) 246-9552 Mr. Thomas A. Clemente

Laminating Arts of NY, Inc.

1237 E. Main Street P. O. Box 90806 Rochester, NY 14609 (716) 482-1220 Mr. Joseph Durnherr, Jr.

Landes of Buffalo

201 Genesee Street Buffalo, NY 14203 (716) 852-8087 Mr. Paul Roth

Lane Press of Albany

11 Kairnes Street Albany, NY 12205 (518) 438-7834 Mr. Robert Luther

Litho Services, Inc.

201 Gifford Street Syracuse, NY 13202 (315) 475-9523 Mr. Damon Dardaris

Lower Forty Pre-Press

1146 Central Avenue Albany, NY 12205 (518) 482-1920 Mr. Charles Batcher

Maar Printing Service

49 Oakley Street Poughkeepsie, NY 12601 (914) 454-6860 Mr. Howard Gropper

Majestic Plastic Corp.

Route 17 M. P. O. Box 381 Goshen, NY 10924 (914) 294-5424 Mr. Reynell Andrews

Manhardt-Alexander, Inc.

400 Creekside Drive P. O. Box 570 Amherst, NY 14228 (716) 691-5533 Mr. Robert Alexander

Marine Midland Bank, N.A.

100 Stradtman Street Buffalo, NY 14206 (716) 894-0718 Mr. Joseph Beardi

Mark, Charles F. Inc.

393 Sheridan Drive Albany, NY 12206 (518) 434-1860 Mr. Richard Tenney

McCarty Printing Company

246 E. 7th Street P. O. Box 1136 Erie, PA 16512 (814) 454-6337 Mr. Paul Seiber

Merchants Press, Inc.

17 Noxon Road P. O. Box 3417 Poughkeepsie, NY 12603 (914) 471-1380 Mr. Allan Butler

Mercury Print Production

50 Holleder Pkwy. Rochester, NY 14615 (716) 458-7900 Ms. Valerie Mannix

Michael William Printery, Inc.

36 Green Mountain Drive Cohoes, NY 12047 (518) 783-8941 Mr. James Bushey

Midstate Printing Corp.

230 Ainsley Drive Syracuse, NY 13205 (315) 475-4101 Mr. John Williams

Modern Press

One Colonie Street Albany, NY 12207 (518) 434-2921 Mr. Michael Ryan

Monroe Litho, Inc.

39 Delevan Street Rochester, NY 14605 (716) 454-3290 Mr. William Turri

Moore Data Management Corp.

120 Industrial Park Road Albany, NY 12206 (518) 489-2538 Mr. Joseph Benoit

New Art Printing Corp.

25 Sand Creek Road Albany, NY 12207 (518) 482-8819 Mr. Brian Gwynn

Newtown/CPC

36 Depot Street Buffalo, NY 14206 (716) 842-1466 Mr. David Shular

Niagara Envelope

693 Seneca Street Buffalo, NY 14210 (716) 854-8251 Mr. Robert Woollacott

Northeast Printing Company

63 Bridge Street Plattsburgh, NY 12901 (518) 563-8214 Mr. Herb Carpenter

Ogilvie Press, Inc.

1300 Commerce Pkwy. Lancaster, NY 14086 (716) 684-1300 Mr. Kenneth LaViolette

Orffeo Printing Co.

4490 Broadway Depew, NY 14043 (716) 681-5757 Ms. Mary Jane Orffeo

Oser Press

1239 University Avenue Rochester, NY 14607 (716) 442-5621 Mr. Seth Oser

Paper Power, Inc.

1971 Abbott Road P. O. Box C Lackawanna, NY 14218 (716) 824-6000 Mr. Jerry Banks

Park Specialties

15 Eagle Trace Ballston Lake, NY 12019 (518) 877-7807 Mr. John Irwin

Partners' Press, Inc.

1881 Kenmore Avenue Kenmore, NY 14217 (716) 876-2284 Mr. Albert Abgott

PBR Graphics

20 Railroad Avenue Albany, NY 12205 (518) 458-2909 Mr. Robert Cullum

PCI - Paper Conversions, Inc.

6767 Thompson Rd. N. Syracuse, NY 13211 (315) 437-1641 Mr. John Withers

The Peters Print

75 Jackson Avenue Cohoes, NY 12047 (518) 233-9580 Mr. Leo Ashline

Petit Printing Corp.

155 Rano Street Buffalo, NY 14207 (716) 871-9490 Mr. Rich Petit

Pollack Printing Corp.

877 Main Street Buffalo, NY 14203 (716) 884-8204 Mr. William Pollack

Printing Services of NY, Inc.

52 Freemans Bridge Road Scotia, NY 12302 (518) 370-1070 Mr. David Benny

Professional Printing, Inc.

4224 Maple Road Amherst, NY 14226 (716) 832-9015 Mr. Stephen Morochnick

Prout Printers, Inc.

51 Collins Avenue Troy, NY 12180 (518) 274-5941 Mr. William Prout

Quad-Graphics, Inc. Du Plainville Road

Saratoga Springs, NY 12866 (518) 581-4000 Mr. Richard Marsel

Quaker-Park Press

5286 Seneca Street Buffalo, NY 14224 (716) 674-8444 Mr. Paul Waggoner

Quebecor Printing Buffalo Inc.

TC Industrial Park Depew, NY 14043 (716) 686-2500 Mr. Vincent Nardecchia

Rapid Service Engraving

1593 Genesee Street Buffalo, NY 14211 (716) 896-4555 Mr. George Egloff

Regal Art Press of Troy

18 Industrial Park Road Troy, NY 12180 (518) 274-4500 Mr. Edward Dickinson

Remiey & Company

3816 Oak Orchard Road P. O. Box 227 Albion, NY 14411 (716) 589-5551 Mr. F. Richard Remley

The Reporter Company, Inc.

181 Delaware Street Walton, NY 13856 (607) 865-4131 Mr. Ken Walter

The Riverside Group

226 Jay Street Rochester, NY 14608 (716) 263-2800 Mr. Peter Pape

Rochester Empire Graphics

150 Research Blvd. P. O. Box 22804 Rochester, NY 14692 (716) 272-1100 Mr. William Bachman

Salina Press, Inc.

112 Fairgrounds Drive P. O. Box 60 Manlius, NY 13104 (315) 682-8573 Mr. Charles Crothers

Salt City Printing, Inc.

6163 E. Molloy Road E. Syracuse, NY 13057 (315) 437-1139 Mr. Lou Vinciguerra III

Savage Printing

1291 Main Street Buffalo, NY 14209 (716) 884-1515 Mr. Edward Crangle

Selco Graphics, Inc.

148 Gifford Street P. O. Box 1034 Syracuse, NY 13201 (315) 476-2108 Mr. Neale Bogardus

Service Print Shop

11 W. Third Street Dunkirk, NY 14048 (716) 366-2677 Mr. Robert Persch

Shaw, James E. Printing

4299 N. Buffalo Road Orchard Park, NY 14127 (716) 662-2679 Mr. Nelson Tschopp

Shipman Printing Industries

2424 Niagara Falls Blvd. P. O. Box 157 Niagara Falls, NY 14302 (716) 731-3281 Mr. Frank Shipman

Somerville Packaging Corp.

3750 Monroe Avenue Pittsford, NY 14534 (716) 248-1800 Ms. Lisa Geller

Sommer, Sterling C. Inc.

527 Filimore Avenue P. O. Box 217 Tonawanda, NY 14151 (716) 694-3377 Mr. Jack Evans

Specialized Printed Forms

352 Center Street Box 158 Caledonia, NY 14423 (716) 538-2381 Mr. Paul Randall

Staffield Printing Ltd.

209 First Avenue P. O. Box 627 Mechanicville, NY 12118 (518) 664-9770 Mr. Richard Staffield

Star Printing, Inc.

2728 Main Street Newfane, NY 14108 (716) 778-8528 Mr. Donald Pomeroy

Syracuse Lithographing Co.

163 Solar Street P. O. Box 391 Syracuse, NY 13201 (315) 422-0326 Mr. Darryl Grandy

Target Media Graphics, Inc.

42 Old Karner Road Albany, NY 12205 (518) 869-2226 Mr. Kevin Clemente

Team Dispatch

917 Bacon Street P. O. Box 6220 Erie, PA 16512 (814) 452-6724 Mr. E. Joseph Mehl

Trident Printing Corp.

2201 Teall Avenue P. O. Box 465 Syracuse, NY 13206 (315) 437-2834 Mr. Lew Worlock

Tucker Printers, Inc.

270 Middle Road Henrietta, NY 14467 (716) 359-3030 Mr. Daniel Tucker

Upstate Litho

1500 Brighton-Henrietta Townline Road Rochester, NY 14623 (716) 424-2970 Mr. Michael Lehmann

Vicks Lithograph

Commercial Drive P. O. Box 270 Yorkville, NY 13495 (315) 736-9346 Mr. Dwight Vicks, Jr.

Walden Printing Co., Inc.

63 Orange Street P. O. Box 192 Walden, NY 12586 (914) 778-3575 Mr. Roger Gibboni

Walter Snyder Printers

691 River Street Troy, NY 12180 (518) 272-8881 Mr. David Snyder

Waterfront Press, Inc.

325 Niagara Street P. O. Box 728 Buffalo, NY 14205 (716) 854-2528 Mr. Les Leopold

Whitney Printing Co.

336 Genesee Street Buffalo, NY 14204 (716) 852-3901 Mr. Ronnie Nudelman Williamson, David F. Co., Inc. 116 Ellicott Square Bldg. Buffalo, NY 14203 (716) 852-0026 Mr. Paul Marzello

Word Management Corp.

107 Everett Road Albany, NY 12205 (518) 482-8659 Mr. Ben Fuina

PRINTING INDUSTRIES ASSOCIATION OF NEW YORK STATE, INC.

MEMBERSHIP LISTING

ASSOCIATE MEMBERS

Alling and Cory

45 Industrial Park Road Albany, NY 12206 (518) 489-4416 Mr. Craig Meredith

Alling and Cory

136 N. Division Street P. O. Box 982 Buffalo, NY 14205 (716) 852-7200 Mr. Stanley Ellson

Alling and Cory

25 Verona Street P. O. Box 20403 Rochester, NY 14602 (716) 454-1880 Mr. Merit Wilkinson

Alling and Cory

6485 Ridings Road P. O. Box 4887 Syracuse, NY 13221 (315) 432-1200 Mr. Paul Carney

Ash Trading Corp.

77 N. Broadway P. O. Box 968 Latham, NY 12110 (518) 463-6666 Mr. Irwin Margolis

BRAND Consultants

P. O. Box 310 E. Greenbush, NY 12061 (518) 477-4934 Mr. Bruce Anderson

Buffalo Printers Supply

1747 Kenmore Avenue Buffalo, NY 14217 (716) 877-3000 Mr. Thomas Nelson, Jr.

Eastman Kodak Company

343 State Street Rochester, NY 14650 (716) 724-4723 Mr. John Toles

Finch, Pruyn & Company, Inc.

One Glen Street Glens Falls, NY 12801 (518) 793-2541 Mr. Homer Feerer

Flint Ink Corp.

38 Loudonville Road Albany, NY 12204 (518) 449-7111 Mr. Rich O'Brien

Forbes Products Corp.

45 High Tech Drive P. O. Box 110 Rush, NY 14543 (716) 334-4800 Mr. Patrick McCormick

Frontier Fibers, Inc.

22 Mechanic Street N. Tonawanda, NY 14120 (716) 692-3448 Mr. Howard Wiseman

Associate Members (contd.)

Gaebel, Arthur H. Inc.

7040 Manlius Center Road P. O. Box 5 E. Syracuse, NY 13057 (315) 656-2670 Mr. David May

Heidelberg USA, Inc.

2036 Washington Street Hanover, MA 02339 (617) 871-3328 Mr. Ralph Pasquariello, Jr.

Hudson Valley Paper Company

981 Broadway Albany, NY 12201 (518) 471-5111 Mr. Kurt Van Steemburg

INX

13 Cannon Street Green Island, NY 12183 (518) 272-0200 Mr. Jeremy Wohlrab

MacBeth Div. of Kollmorgen

405 Little Britain Road New Windsor, NY 12553 (914) 565-4440 Mr. Nick Lena

National Graphic Supply

226 N. Allen Street Albany, NY 12206 (518) 438-8411 Mr. Alfred Landess

Niagara Paper Company, Inc.

99 Bud-Mill Drive P. O. Box 886 Buffalo, NY 14240 (716) 856-5135 Mr. Michael Brummer

Onondaga Litho Supply

341 New Karner Road Albany, NY 12205 (518) 456-8123 Mr. Thomas Parks

Onondaga Litho Supply

733 Linden Avenue Rochester, NY 14625 (716) 381-7510 Mr. Thomas Board

Onondaga Litho Supply

101 Graphic Drive Syracuse, NY 13206 (315) 463-9163 Mr. Jack Vosburgh

Pajco Products, Inc.

7740 West Street P. O. Box 191 Lowville, NY 13367 (315) 376-3571 Mr. Samuel Villanti

Plantrol Systems, Ltd.

71 E. Main Street Westfield, NY 14787 (716) 326-4975 Mr. Edwin Czajka

Reppenhagen Roller Corp.

813 Sycamore Street Buffalo, NY 14212 (716) 853-0700 Mr. Frank Reppenhagen

Ris Paper Company, Inc.

3 Selina Drive P. O. Box 13716 Albany, NY 12205 (518) 869-4220 Mr. Lee Reeves

Associate Members (contd.)

Rochester Institute of Technology

School of Printing 1 Lomb Memorial Drive Rochester, NY 14623 (716) 475-5955

Ron Ink Company

61 Halstead Street Rochester, NY 14610 (716) 482-7050 Mr. Richard Saunders

Safety-Kleen Corp.

Factory & Mitchell Avenue P. O. Box 475 Syracuse, NY 13211 (315) 455-1426 Mr. Carl Didomenico

Seneca Paper, Inc.

9 Interstate Avenue Albany, NY 12205 (518) 459-5200 Mr. John Wolfgang

Seneca Paper, Inc.

75 Allied Drive Buffalo, NY 14227 (716) 894-6369 Mr. R. James Scott

Seneca Paper, Inc.

48 King Street P. O. Box 2010 Rochester, NY 14603 (716) 328-9300 Mr. L. Bruce Williams

Stora Papyrus Newton Falls, Inc.

1 Main Street P. O. Box 253 Newton Falls, NY 13666 (315) 848-3321 Mr. Thomas Hanley

Taussig's Graphic Supply

9 Apollo Drive Batavia, NY 14020 (716) 344-4444 Mr. Terry Reuschle

VGC Corp.

14 Walker Way #4 Albany, NY 12205 (518) 785-3455 Mr. Robert Baan

VGC Corp.

519 Hamburg Street Buffalo, NY 14204 (716) 854-5630 Mr. Donald Pearce

VGC Corp.

175 Research Blvd. Rochester, NY 14623 (716) 338-3440 Mr. Mark Lindsay ON PRINT BUY HAS CONTACTED FOR LEAST SUMPLY

Section 6: Appendices

Appendix H

U.S. Print Buyers List

Associate Members Contd.,

Sertion 6: Appendices

Rochester Institute of Technology School of Printing Lomb Memorial Drive Rochester, NY 14623 (716) 475-5955

Ren Ink Company 61 Helstend Street Rochester, Mr 14610 (716) 482-7050 Mr. Richero Sconders

Salety-Kinen Corp. Foctory & Milchell Avenue P. G. Box 475 Syracuse, NY 13211 G115/455-1425 Mr. Corl Sidomienico

Seneco Poper, Inc. 9 Interstore Americe Alberty, NY 12203 (\$15) 459-5200 541 John Wollgong

Saneco Paper, Inc. 75 Alled Drive Bulled Drive Bulleto, NY14227 (715) 594-5269 Mr. R. Jonses Scott

Senece Paper, Inc. 40 Jung Sirbel P. O. Box 2010 Rochester, NJ \$4603 (716) 328-53(20 Mr. L Brace Sillians

Salara Propieto Analian I Arcan Shore Arca Care 253 Passano Francisco Maria (313) Salara Anal Mit. Theosocia Marian H ADOIN GINE Botovia, NC 14030 China Sectoria Ala Teny Sectoria

Voc See La Mosio Mos (S Josef and Sector Distriction 1655 An Anna Sector

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U.S. PRINT BUYERS CONTACTED FOR THIS SURVEY

| Firm | City | Product or Service | Contact | Phone | Interviewed |
|--|--------------------------|------------------------------|------------------|----------------|-------------|
| ABB Kent Taylor | Rochester | process control equip. | Pat Campbell | (716) 292-6050 | Yes |
| Allegheny Ludium Steel Div. | Pittsburgh | steel & alloys | purchasing | (412) 394-2800 | |
| Aluminum Company of America | Pittsburgh | aluminum products | Audrey Parey | (412) 553-4545 | |
| Arnold & Company Inc. | Syracuse | advertising agency | Meg Stepanian | (315) 446-0037 | Yes |
| Bausch & Lomb | Rochester | eyewear | Harry Clauss | (716) 338-6000 | |
| Blair/BBDO Advertising | Rochester | advertising agency | Judy Hawthorne | (716) 473-0440 | |
| Buffalo Public Schools | Buffalo | education | Georgia Zeigler | (716) 851-3500 | Yes |
| Buffalo State College | Buffalo | education | Lynn Lions | (716) 878-4113 | Yes |
| Bush Industries Inc. | Buffalo | furniture manufacturer | Mike S. | (716) 665-2000 | Yes |
| CAE-Link Corporation | Binghamton | simulation training systems | Jackie Eck | (607) 721-2605 | |
| Calgon Corp. | Pittsburgh | air/water pollution control | Glenn Loper | (412) 777-8386 | Yes |
| Capintec Instruments | Pittsburgh | control instruments | Shirl Van Dyke | (412) 963-1988 | Yes |
| Carousei Center Mall | Syracuse | shopping center | Gina Mintzer | (315) 466-6000 | |
| Carrier Corporation | Syracuse | air conditioners | Frank Scarfino | (315) 432-7905 | Yes |
| Champlain Centres Mall | Plattsburgh | shopping center | Carolyn Harding | (518) 561-8660 | Yes |
| Champlain Hospital | Plattsburgh | health care | Noel Stewart | (518) 561-2000 | |
| Children's Hospital of Buffalo | Buffalo | health care | Beverly | (716) 878-1973 | Yes |
| Contraves-Goerz Corporation | Pittsburgh | industrial instruments | Wayne Perry | (412) 967-7700 | |
| Cooper Power Systems | Pittsburgh | power systems | purchasing dept. | (412) 777-3200 | |
| Crouse-Hinds E.C.M. | Syracuse | elec. construction materials | Kathy Duskee | (315) 477-5120 | |
| Daily Juice Products | Pittsburgh | food producer | Gary Tener | (412) 828-8602 | |
| Dresser-Rand Co. | Buffalo | compressors, engines | Linda Firkel | (716) 375-3148 | |
| DuPont Co. | Buffalo | imaging systems | purchasing dept. | (716) 277-1200 | |
| Eastman Kodak Co. | Rochester | cameras, film, imaging equip | purchasing dept. | (716) 724-4000 | |
| Endicott Johnson | Binghamton | shoe retailer | Jean Borelli | (607) 770-6521 | Yes |
| Eric Mower and Assoc. | Buffalo | advertising agency | Paul Wahler | (716) 842-2233 | Yes |
| Erie County Medical Center | Buffalo | health care | Barbara Sims | (716) 898-3000 | |
| Erie County, New York | Buffalo | county government | Vallie Trillizio | (716) 858-6312 | Yes |
| MARCH STREAM SE 1910 | Syracuse | drug stores | Bill Fairchild | (315) 451-8000 | |
| Fay's Incorporated Fisher-Price Toys | Buffalo | toy manufacturer | purchasing dept. | (716) 687-3000 | |
| Fleet Financial Group | Buffalo | commercial banking | Daryi Walker | (716) 431-7926 | |
| (118) (23.2712 | Buffalo | auto manufacturer | purchasing dept. | (716) 821-4000 | |
| Ford Motor Co. | Binghamton | snack foods | Vicki Rawding | (607) 775-4330 | Yes |
| Frito-Lay Corp. General Motors/Delco Div. | Rochester | auto manufacturer | Keith Pinto | (716) 277-3700 | Yes |
| | Rochester | beer brewer | Todd Brady | (716) 546-1030 | |
| Genesee Brewery | Rochester | machine tools | purchasing dept. | (716) 473-1000 | |
| Gleason Corp. | Buffalo | plastic fabrication | Barry Gonsior | (716) 896-3100 | |
| Great Lakes Plastic Co. Inc. H.J. Heinz | Pittsburgh | food production | Mike Greca | (412) 237-5757 | |
| | Rochester | advertising agency | Bill Manzey | (716) 546-6480 | Yes |
| Hutchins, Young & Rubicam | Rochester | advertising agency | Kathy Hamilton | (716) 244-5400 | |
| Ice Inc. | | computers, mainframes | Beverly Vecchio | (315) 424-2170 | |
| International Business Machines Iron Age Protective Co. | Syracuse Pittsburgh | industrial footwear | Don Stella | (800) 223-8912 | Yes |
| | Pittsburgh | steel, coal, chemicals | purchasing dept. | (412) 227-4000 | |
| Jones & Laughlin Steel | | industrial equipment | purchasing dept. | (412) 562-4500 | |
| Joy Technologies Koolvent Aluminum Products Inc. | Pittsburgh Pittsburgh | windows, siding, awnings | Stella Scfranski | (412) 858-3500 | |

Appendix H

| irm sector at the | City | Product or Service | Contact | Phone | Interviewe |
|---------------------------------------|-------------|---|-------------------|----------------|------------|
| Machine Shop Technologies | Pittsburgh | education | Frank Sanns | (412) 922-2602 | Yes |
| Manufacturers and Traders Trust | Buffalo | commercial bank | purchasing dept. | (716) 842-4200 | |
| Marine Midland Bank | Buffalo | commercial bank | purchasing dept. | (716) 841-2424 | |
| Martin Marietta Co. | Syracuse | aerospace | Robert J. Martin | (315) 793-6032 | Yes |
| Ailes Corporation | Pittsburgh | chemicals | Julie Steding | (412) 777-2321 | |
| · · · · · · · · · · · · · · · · · · · | Buffalo | precision control parts | Susan Valois | (716) 652-2000 | |
| Noog Inc. National Fuel Gas Co. | Buffalo | gas and oil | John Mayberry | (716) 857-6933 | |
| lew Hartford Advertising | Syracuse | advertising products | Chris Klumpach | (315) 699-6310 | Yes |
| lew Venture Gear, Inc. | Syracuse | transmissions | purchasing dept. | (315) 432-4000 | |
| IFTA/NFT Metro System Inc. | Buffalo | transportation system | purchasing dept. | (716) 855-7300 | |
| | Syracuse | utility | Mike Kane | (315) 428-6656 | |
| liagara Mohawk Power Co. | Binghamton | utility | Al Costello | (607) 729-2551 | |
| IY State Electric & Gas | Syracuse | food stores | Dick Hall | (315) 463-0354 | |
| &C Food Markets | | pharmaceutical | Sally Heur | (412) 362-5650 | Yes |
| Pennex Products | Pittsburgh | pharmaceutical | purchasing dept. | (716) 475-9000 | |
| ennwalt Corporation | Rochester | pipe and pipe hangers | purchasing dept. | (412) 323-6200 | |
| ower Piping Company | Pittsburgh | chemicals | Larry Gallanter | (412) 434-3076 | |
| PG Industries, Inc. | Pittsburgh | | purchasing dept. | (716) 879-2000 | |
| Praxair Inc. | Buffalo | industrial glass | purchasing dept. | (716) 244-5830 | |
| IF Harris Communications | Rochester | electronic equipment frozen foods | Dick Dearborn | (716) 876-8000 | |
| lich Products Corp. | Buffalo | electronic control devices | John Duffy | (412) 327-7000 | |
| lobicon Corporation | Pittsburgh | and the second se | Amy Cutrona | (716) 258-3000 | Yes |
| Rochester Community Savings | Rochester | commercial banking | Charlotte Lammes | (716) 546-2700 | |
| Rochester Gas & Electric | Rochester | utility | Mary Thoms | (716) 336-2200 | Yes |
| Rochester Midland Corporation | Rochester | industrial chemicals | purchasing dept. | (412) 247-3000 | |
| Rockwell International | Pittsburgh | actuators, clamps, valves | Doris Martin | (716) 845-5744 | |
| Roswell Park Cancer Institute | Buffalo | treatment center | | (716) 668-7200 | |
| Scrivner of New York | Buffalo | wholesale and retail food | Bob Giraffa | (518) 474-5435 | Yes |
| State of NY Central Purchasing | Albany | state government | Lou Renbano | (315) 464-5540 | |
| State University of NY Health Ctr | Syracuse | education, health care | Kay Frank | (716) 645-2681 | Yes |
| State University of NY-Buffalo | Buffalo | education | John Grabowski | (518) 564-2000 | Yes |
| State University of NY-Plattsburgh | Plattsburgh | education | Roy Garrant | (716) 275-2121 | 100 |
| Strong Memorial Hospital | Rochester | health care | purchasing dept. | | |
| Syracuse University | Syracuse | education | Bob Martin | (315) 443-5748 | |
| Tops Markets, inc. | Buffalo | convenient stores | Robert Jasinski | (716) 823-3712 | Yes |
| United Health Services, Inc. | Binghamton | hospital management | Fran Olsa | (607) 763-6172 | 100 |
| Universal Instruments | Binghamton | electronic production equip. | Joyce Smith | (607) 772-7412 | |
| University of Pittsburgh | Pittsburgh | education | George Bernarski | (412) 624-6202 | |
| University of Rochester | Rochester | education | purchasing dept. | (716) 275-2002 | |
| Wegmans Food Markets, Inc. | Syracuse | food & pharmacy stores | purchasing dept. | (315) 622-1621 | Yes |
| Welch Allyn, Inc. | Syracuse | medical instruments | Laurie A. Wheeler | (315) 685-4451 | 163 |
| Westinghouse Corporation | Pittsburgh | electronics | purchasing dept. | (412) 788-5750 | |
| Williams & Company, Inc. | Pittsburgh | welding products | Mary Majeski | (412) 237-2211 | N |
| Woodings-Verona Tool Works | Pittsburgh | iron products | Michael Kosobucki | (412) 828-7000 | Yes |
| Wyeth-Ayerst Research | Plattsburgh | chemicals | Roy Garrant | (518) 297-6611 | Yes |
| Xerox Corporation | Rochester | business machines | purchasing dept. | (716) 423-5090 | |

Anny is evened and managed by Brian Anny with where the inservice was conducted. The minoray of its business is the printing of logos or promononal claims on a variety cl products such as monie pads and reingenitor magnets. In addition, Anny also produces can becale and in-store curston signage. The company is located in the Toronto area, cardiors 30 propiet, and had revenues of \$2.5 million in 1992. The majority of its work is occupieted on 2 semi-summatic Stores off set screen progress. Anty parabased a Columbus, Onio company called A.S.F. and remained the overpany Anny, United States. Recently, the permitted was originally builed, but an unofficial working relationship will exists. Anty has been astronomicly microstrip in exporting to the Denced States. Nearly one quotier of its revenue is generated torus U.S. extended.

Appendix I

Interviews with Exporting Canadian Printers

APPENDIX I: INTERVIEWS WITH EXPORTING CANADIAN PRINTERS 1. AUTY

Auty is owned and managed by Brian Auty with whom the interview was conducted. The majority of its business is the printing of logos or promotional claims on a variety of products such as mouse pads and refrigerator magnets. In addition, Auty also produces car decals and in-store custom signage. The company is located in the Toronto area, employs 30 people, and had revenues of \$2.5 million in 1992. The majority of its work is completed on 2 semi-automatic Svecia off-set screen presses. Auty purchased a Columbus, Ohio company called A.S.P. and renamed the company Auty, United States. Recently, the partnership was officially ended, but an unofficial working relationship still exists. Auty has been extremely successful in exporting to the United States. Nearly one quarter of its revenue is generated from U.S. exports.

Why did you expand to the U.S.?

"When the Canadian dollar was very high it was extremely hard to export Canadian goods into the U.S., so we bought into an existing company in Columbus and changed it's name to Auty Printing, United States. We experienced strong growth because of the marketing experience we contributed. The company we bought was smaller but it did the same kind of screen and offset printing."

Do you still export?

"Yes, about \$750,000 of our \$3.25 million in total revenues is export revenue from Arizona, Chicago, etcetera. We don't have the official partnership anymore because the U.S. partner didn't want to risk their equity in our expansion plans. However, we still work together and Auty saves a considerable amount of money by this unofficial partnership."

Why can you export so far?

"Because our product is unique. Car decals, fridge magnets, mouse pads, in store custom signage are a few of the products we print or print on. There is competition, but the marketing materials used by Auty get the prospective client interested and let them know that a reputable company is calling on them. We distribute our marketing materials at trade shows that I personally attend. We also have a 1-800 number. In addition, Auty is willing to satisfy all the customer needs that other printers are unwilling to do. For example, we have a customer who wants the final product shipped to 100 destinations instead of one. This requires special packing of the product which other suppliers wouldn't do. We could solve their problems for them so this made it (the sale) happen."

How do you generate most of your export sales?

"At trade shows I may generate 1000 to 1500 leads. I give them my marketing materials which consist of company newsletters (with new and future products of interest to the client) and our catalog. At the show I will explore the prospects background and whether or not it would be justified to make a personal call to the companies key decision makers. I will take their name down for my mailing list and keep in contact by sending out newsletters to keep them interested."

Do you have an office in the U.S. currently?

"Our unofficial partner has a space where I can base my operations when I am in the Columbus area. Other than that I have friends in U.S. cities that I will stay with."

Have you encountered any border difficulties?

"I have found that as volume increases it gets easier to cross the border. Customs is very cooperative with Auty because we put proper marking on every box. Because Auty is a regular exporter and always provides correct documentation, customs has provided us with a line item release form. This allows rapid expedition and virtually no delays. To do this you need to have the proper volumes, which would be about one truck a week (transport size truck). The truck doesn't have to be full, but you should have 5 to 15 thousand pounds on the truck to justify the line item release form."

How are you making it easy for customs?

"We have a U.S. customs broker which tells us exactly what customs will require and we follow their instructions exactly. In addition, we always use the same port and the same initial destination: Columbus, Ohio. One truck a week costs approximately \$200 dollars a skid to send and the skid has approximately \$25,000 in product all pre-labeled and packaged for UPS shipment. It is all very transparent and using the same border crossing cuts down delays and problems."

How do you save shipping costs?

"Canadian freight rates are outrageous. To ship one pound to the United States expect to pay about \$35 (Canadian) dollars. However, if you ship to a United States destination by truck first, you would only pay about \$3 dollars to ship the same package. It costs about \$5 dollars a pound to ship from Toronto to Columbus on our own truck so the total is about \$8 dollars a pound. We prepackage all our shipments for secondary shipment by UPS once it is unloaded in Columbus."

How did you create the partnership with Advanced Screen Printing (A.S.P.) in Columbus (later Auty Printing, U.S.A.)?

"Five years ago, the Canadian dollar was increasing rapidly and free trade had been initiated. I knew that U.S. competition was coming so I sought to expand and export. Initially, I contacted my suppliers in the United States to discuss my plans. I chose Columbus because I thought it would be an excellent U.S. base for operations: they have a large industrial base and they are close to my Canadian operations (it takes about 6 hours to ship from plant to plant). When I told my U.S. suppliers about my plans they told me about one of their clients in Columbus who did similar work. Another golf game ensued with the owner of A.S.P. and a joint venture evolved."

What happened after the partnership was created?

"The partnership was sort of one-sided. Most of the work was being done by Auty, Canada. In terms of size, Auty, U.S.A. had revenues of \$360 thousand dollars and 5 years later their revenues were almost 2 million dollars. The partnership worked great for both

firms, but my U.S. partner grew scared of further rapid expansion and equity risk, so he pulled out of the official partnership. Even though I was providing most of the capital, Auty, U.S.A.'s owner was afraid of the kinds of numbers (large orders) moving through his shop and he was unwilling to take the kind of risks necessary to become a 5 or 10 million dollar (revenue) shop. We still continue an unofficial work partnership. With the official separation we split our sales. A.S.P. currently does about 900 thousand in revenues."

What other ways can you network to find partners?

"Use the CPIA and the PIA. I go to trade shows or conferences and I have developed friends in nearly every major city in the United States. Canadian printers don't take advantage of these networking opportunities presented by the PIA and other local printing and business associations. For example, I went to a PIA meeting in Mexico entitled *How to Sell Printing in Canada* because I definitely wanted to know the strategies U.S. and Mexican firms were using to get into Canada. I thought other Canadian printers would be there, but I was the only one. Opportunities are there (in the United States) and Canadian firms typically under exploit them."

What are your plans for further expansion or exporting?

"We are currently looking to get a U.S. rep for and innovative in-store signage technique. However, I don't believe it will cost \$150,000 a year to establish the rep. It would depend on the city. For example, I would expect to spend \$75,000 for a rep in Columbus. It is only \$.22 cents a minute for long distance phone calls using my 1-800 number (an 800 number is essential to reduce the perceived distance between the you and the customer) the sales rep would be commissioned and independent, so forget the car and large salary (I would provide some draw however). I would like to get someone with a college education and I would personally teach him our proven sales, distribution, ordering, and marketing techniques. I would pay his travel and place him in an existing market where sales were attainable."

What do you think about general printers in Canada coming to the United States?

"Too many printers go to the United States with pie in the sky aspirations, but they're dreaming. Auty sells unique things with definite benefits for our clients. A general printer in Ottawa for example, is dreaming if he thinks he can sell in the U.S, he is too far from his customers to sell to them. Printing is very service oriented and if you can't deliver overnight or provide the things customers need, when they need them, you won't succeed. Canadian printers must learn that there are a multitude of opportunities in the States and if you provide something that is unique, ie. not general printing, you can exploit these opportunities."

How?

"By getting down to the States themselves (the owners) and exploring markets, attending trade shows, networking, and finding the real reason that Americans would want to buy from Canadian printers. For example, Auty found that there was a quality difference, our quality was much better and it became a selling point. Just getting a sales rep wont do it. A good first step is to join the PIA so you can talk to U.S. printers. Auty is one of only three printers in the PIA. Why? Because other printers aren't taking advantage of the networking and information potential in trade organizations. After this, the best route is to establish a base of operations in the United States."

Is it possible to expand your U.S. market once you have entered?

"Yes, we are currently developing a cutting edge in-store signage system that will offer significant new benefits to signage customers."

2. LOWE MARTIN

Lowe Martin is a mid-sized sheetfed printer located in Ottawa. The company employs approximately 200 people and had revenues of \$30 million in 1992. The company is privately owned and managed by Don Griffin. Through large investments, in "high tech" front end equipment, presses, bindery equipment and capable people, Mr. Griffin has made Lowe Martin one of the best equipped sheet fed printers in the industry. Lowe Martin performs the majority of its business in the Ottawa area, it is a well recognized sheet fed full service printer, but its niche is high tech printing. Customers in this niche need front end capabilities such as image editing, image storage, and the ability to work completely from computer diskette. In addition, Lowe Martin provides its customers with the quick high quality produced from digital image printing (DI) or Heidelberg presses. Lowe Martin has not yet expanded to the United States. They are currently planning to do so and have conducted a extensive research of potential U.S. markets. Mr. Griffin and Randy Pope, Director of Synergy, were interviewed for their U.S. expansion plans and other areas of interest to Canadian printers considering exporting.

How big should a printer be before he attempts to expand or export?

Pope: "If you can't service your own market, for example if you only service 2% of your market, then you can't expand. You have to offer something that isn't being offered in the States already to overcome the geographic barrier."

Have you considered using a U.S. print broker?

Pope: "Print brokers are not specific enough for us. We need a dedicated rep who knows specifically how to sell the value that Lowe Martin can add to the printer-client relationship."

How much would your own rep cost?

Pope: "Probably about 150 grand a year. That would include the office expenses, salary or draw, transportation expenses, and all the general operating expenses. If you're only doing 4 to 5 million a year (in revenues) your probably excluded from that."

Are there other ways to get into the States?

Pope: "Yes, if you are a very good niche printer, such as just postcards or just calendars, then you can target your market. If you are very good and low cost you can be competitive. There are too many general printers in the U.S already and being the 101st supplier on a buyers list won't work. You must specialize to do well."

How does Lowe Martin do that?

Pope: "We offer value added high tech like image editing, video storage and direct image (DI) printing. Our strategy is to find the cities that lack this specialty and fill the niche."

How do you find specialties that are lacking in an area?

Pope: "Your first focus should be on the print buyers who buy your specialty. If we find a center that isn't being serviced by big high tech printers, like Donnelly, and it has a base of customers that need our service then we will get in."

How do you get in?

Griffin: "Buying out a company is one way, or form a partnership. The way communications are it is easy to work between plants and build economies. Working from disk, the computer, the fax, the modem all make this possible."

What sort of partner would you seek?

Griffin: "You must find a partner that needs what you have. One has money, but no ideas. The other has ideas, but no money. You must offer something of value. For example, Lowe Martin offers high tech front end, DI and many other benefits."

How would you initiate the joint venture?

Griffin: "Effective desire for expansion is a prerequisite. Once you have that, you must find your target clients and examine their literature, do feasibility studies, investigate the competition. Talk to suppliers and see who has bought new innovative equipment in the area. Then you must answer some questions: can you get the markups you want? The ROI you want?"

What is your target market?

Pope: "Lowe Martin looks for high tech companies. Scientists and engineers have printed journals that need constant re-manipulation which utilizes our image editing and DI abilities. In addition, there are similar cultures: high tech engineers like high tech printers."

What are ways to establish contacts in the United States?

Griffin: "A company looking to expand must network. Networking with local U.S. company executives is a good place to start. Lowe Martin knows the president of Xerox, U.S.A. because he used to be in Ottawa. We reestablished those ties when he was promoted and our di-cut tab business went from Xerox, Canada to Xerox, United States."

What will be the long term impact of NAFTA and the FTA?

Griffin: "We lost that Xerox business I just mentioned to Mexico because it is low tech. Printers in Mexico have lower labor costs and low tech printing companies will continue to take advantage of this. Without trade barriers, you must be able to compete with high tech and if you can't compete on high tech then you must compete on service and quality."

3. McLaren, Morris & Todd

McLaren, Morris & Todd was founded in 1956. It currently has 240 employees and 1992 gross revenues were \$45 million. All their production is completed in one plant. Its specialties are greeting cards which are printed for Hallmark. It also specializes in labels for consumer goods such as food, laundry, and soft drinks. Another area of production for MM&T is direct mail products. Its plant has very little pre-press other than plate making and the main production presses are sheet fed and half web presses. Currently, the chairman and managing partner, Mr. John Morris has been working with MM&T since 1966 and was the executive interviewed for the survey. Approximately 10% of the revenues of MM&T are generated from export of labels to the United States.

What is your U.S. export strategy?

"We focus mainly on our consumer goods label business. Our strategy is to focus on Canadian companies that are subsidiaries of U.S. companies or to work with Canadian companies that have subsidiaries in the United States. For example, Proctor & Gamble is a U.S. company with a Canadian subsidiary. We might get entry by working with their Canadian operations or we try to may sell directly to their U.S. parent company."

What is the primary obstacle for you when trying to get U.S. business?

"The 'Printed in Canada' marking requirement is a major negative. We had the opportunity to do a large volume direct mail piece, but were prevented from doing so because of the marking requirement. The reason we have been successful with labels is that U.S. law does not require country of origin marking on labels."

Have you ever considered buying out a U.S. company?

"At the moment we believe this will have to be our strategy. There is a significant provincial attitude among purchasers in the United States which prevents entry."

Have you tried a dedicated sales rep in a U.S. market?

"We tried that and it was totally ineffective. The main objection was that MM&T is a foreigner and why should I print with you when I can print down the street. We were focused on our consumer goods labels' niche in the large New York market, but we still could not gain entry. The cost of the office for one year was approximately 100,000 dollars. It was not the rep's fault either because I made many sales calls with him. We thought New York was a city where we would face less of the 'Buy American' attitude, but this was not the case. One time I made a call with the rep on a Minneapolis company who seemed very interested. We were invited to make a presentation to the key decision makers and on the day of the presentation, we were greeted by a secretary wearing a big pin that said, 'Buy American.' I turned to my rep and said, 'We're not selling anything here,' and I was right. We went into the meeting and were faced with a group of executives that were almost visibly upset."

Have you experienced any border crossing problems?

"We have always taken care of our paperwork so we have never experienced any

problems in this area."

What would it take for a Canadian company to be successful in the United States?

"We have come to the conclusion that you must set up and operation in the States and we believe it would have to be a production base. This would give us credibility and entry into the market. Canadians, unlike Americans, will welcome in the world. We are the largest importer of printed goods on a per capita basis. Unfortunately, this is not the case in the States so we are trying to adjust to the market."

If you were researching a U.S. market, what questions would you ask a local buyer?

"We would like to know more about buyers in the paper label and direct mail industries. Any consumer goods company. The first question I would ask would be 'is there any need to have a base of operations in the United States.'"

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4. Webcom

Webcom is a web press printer specializing in softcover books, catalogs and directories. It is privately owned and based in Toronto, where all production takes place. It has a sales volume of \$25 million per year and approximately 200 employees. Approximately 30% of its business is performed in the United States where it has sales offices in Cleveland, New York City, and Boston. The interviewee representing Webcom is Mike Colinge, Vice President of Marketing and Sales.

What are the main obstacles for a Canadian web printer when trying to enter the United States market?

"The main obstacle is gaining credibility with U.S. publishers. Webcom was not affected by the Free Trade Agreement. Books have always been traded between the United States and Canada without duty because of each country's laws regarding freedom of information. However, there are marking difficulties requiring Canadian book printers to put 'Printed in Canada' on their products. In addition, costs to comply with U.S. tax codes can be high. We have to hire accountants to make sure we are in compliance with U.S. payroll taxes, pension requirements, and workman's compensation."

How do you pick which U.S. market you will enter?

"Webcom's business is set up around niches. We investigate and target specific markets, our Boston office is a good example. In Boston we only sell to colleges and universities. We chose NYC and Cleveland for our other U.S. offices because there are large concentrations of book publishers."

How are your U.S. branch offices set up?

"All of our U.S. offices have only one employee, the sales rep. Costs for the U.S. offices have run about 100 to 150 thousand per year and we expect it will take from 1 to 2 years before a branch starts to become profitable. Our reps are U.S. citizens which we selected for their experience in their market. We target accounts in areas other than NYC, Boston or Cleveland. We do this by contacting the target accounts by phone from our Toronto office and then following up with a visit to their location."

What are obstacles to generating U.S. accounts?

"U.S. buyers are not scared of doing business over long distances, so our location is not a real obstacle. The buyer's main concerns are cost, product quality, service and reliability. However, there is definitely a very strong 'Buy American' loyalty that has been building over the last couple of years. This is mainly due to the recession and the media 'Buy American' campaigns. As a result, we can not just be good, we have to be better."

Do U.S. customers require any special treatment?

"Absolutely, our objective from day one is to make it seem that Webcom is the printer down the street. Webcom takes care of all the issues, for example we never use any metric measurements, pricing is all in U.S. dollars, and we take care of all export required documentation. It is essential that buying from Webcom is no different than buying from anyone down the street. Included in that is discussing unpopular issues like 'Printed in Canada' marking requirements. This can be a very sensitive issue for our customers."

Can you do anything to help these "marking sensitive" customers?

"The most prominent marking areas are on the cover and if it is a concern to our customer we try to get the marking off the cover. We do not have to put 'Printed in Canada' on the cover unless the name and address of the publisher is there. We check with the customer and if they do not feel that is important to have their name and address there we take their name and address off and have the 'Printed in Canada' in notation on the copyright page."

Are shipping costs a problem?

"Our shipping cost typically run less than 5% of the total cost of the job which in most cases is less than our U.S. competition. We always inform the customer of these added shipping costs up front so there are no surprises when they receive the product. All the shipping is done through independent carriers. In some cases we prepackage the shipment for U.S. Postal secondary shipment once it is unloaded in Buffalo. We do ship directly from Toronto using major carriers, the costs can be very high, but because we ship a large amount on a regular basis we have been able to negotiate with the carriers to get the costs more competitive."

Have you experienced any difficulties or delays at Customs?

"In most cases U.S. customs is not a problem. We do enough shipping that is all taken care of electronically so border crossing is really a non-issue. There are Customs issues where they may question a product's classification or there may be Customs clearance fee changes so we work closely with our Customs brokers. Customs clearance fees usually run about 100 to 200 dollars per truckload."

Is there a competitive pricing disadvantage for Canadian web printers?

"We have found that U.S. printers' pricing is consistent with our pricing so competition has typically been on other issues."

Are there any special abilities that allow Webcom to export to the United States?

"There are more similarities than differences between the U.S. and Canadian markets. Doing business with a U.S. customer is not like doing business with a German or French customer. The main thing that allows Webcom to export to the United States is that we have taken the initiative and made the investment in time and effort to go down and find out what it takes to be successful. What I see with Canadian printing companies is the initial effort and follow through is not there. Just because the United States market is ten times the size of the Canadian market does not mean you can go down and get a small piece (of the market) and be successful. However, if you are good at what you do up here there is no reason to believe you can not go down and exploit that niche in the United States."

If you were contacting buyers in a potential U.S. market who would they be? What

competitive information would you like to know?

"Our competition are the larger companies, the Donnellys and Bantas. If we were moving into a U.S. market we would like to know what segments the large web presses are serving in that area."

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5. Henderson Printing

Due to a technical failure in the recording equipment, transcripts for the interview with Lyle Henderson are unavailable. Responses are recreated from notes taken during the interview, and approved by Mr. Henderson.

How have you overcome the "Printed in Canada" labeling requirement?"

I print entertainment programs for a woman in the U.S.. She didn't want "Printed in Canada" on the cover of the program because she thought the marking might upset her patrons. I pointed out that the marking could be on an inconspicuous page inside the catalog. She didn't realize this was possible, but decided to buy from us when I explained it was.

Have you run into any biases or misconceptions among U.S. print buyers?

Yes, I currently have a buyer in a U.S. town just 50 miles from my plant. This print buyer was getting all the company's printing done in Syracuse, which is over 150 miles away. I explained to the buyer that I could supply their printing, but the first reaction I got was that my plant was too far away. For some reason, buyers think Canada is near the North Pole. The second reaction was that international trade was too hard. U.S. buyers seem to think that there is a wall at the border.

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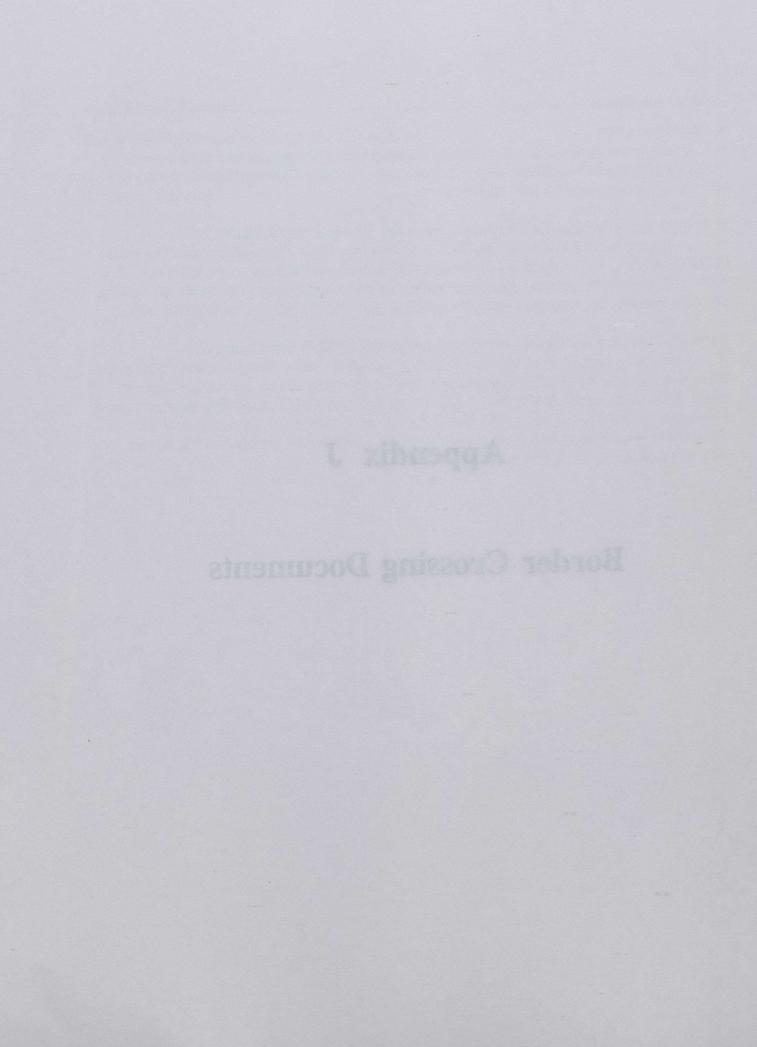
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Appendix J

Border Crossing Documents



Admission Number 222840943 01 Immigration and Naturalization Service I-94

Arrival Record

Family Name

| First (Given) Name | Birth Date (Day/ Mo/ Yr) |
|---|---------------------------|
| Country of Citizenship | Sex (Male or Female) |
| Passport Number | Airline and Flight Number |
| Country Where You Live C | ity Where You Boarded |
| City Where Visa Was Issued | Date Issued (Day/ Mo/ Yr) |
| | TWOY TOWN |
| Address While in the United States (Number and St | rect) |
| City and State | |

Departure Number

222840943 01

Immigration and Naturalization Service

I-94 Departure Record

Family Name First (Given) Name Country of Citizenship

See Other Side

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| 18. Occupation | 19. Waivers |
|---------------------|-------------------------|
| 20. INS File A - | 21. INS FCO |
| 22. Petition Number | 23. Program Number |
| 24. 🗆 Bond | 25. Prospective Student |

26. Itinerary/Comments

| 27. TWOV | Ticket | Number |
|----------|--------|--------|

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A nonimmigrant who accepts unauthorized employment is subject to

Important - Retain this permit in your possession: you must surrender it when you leave the U.S. Failure to do so may delay your entry into the U.S. in the future. You are authorized to stay in the U.S. only until the date written on this form. To remain past this date, without permission from immigration authorities, is a violation of the law.

By sea or air, to the transportation line;
Across the Canadian border, to a Canadian Official;
Across the Mexican border, to a U.S. Official.

Students planning to reenter the U.S. within 30 days to return to the same school. see "Arrival-Departure" on page 2 of Form 1-20 prior to surrendering this permit. **Record** of Changes

Departure Record

Port:

Date:

Carrier:

Flight #/Ship Name:

For sale by the Superintendent of Documents, U.S. Government Printing Office Washington, D.C. 20402

Section 6: Appendices

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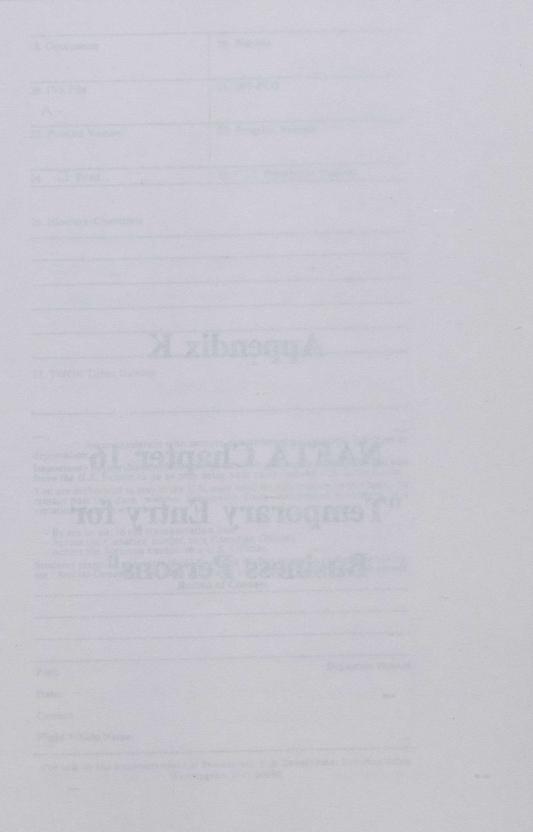
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Appendix K

NAFTA Chapter 16 "Temporary Entry for Business Persons"

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Chapter Sixteen

Temporary Entry for Business Persons

Article 1601: General Principles

Further to Article 102 (Objectives), this Chapter reflects the preferential trading relationship between the Parties, the desirability of facilitating temporary entry on a reciprocal basis and of establishing transparent criteria and procedures for temporary entry, and the need to ensure border security and to protect the domestic labor force and permanent employment in their respective territories.

Article 1602: General Obligations

1. Each Party shall apply its measures relating to the provisions of this Chapter in accordance with Article 1601 and, in particular, shall apply expeditiously those measures so as to avoid unduly impairing or delaying trade in goods or services or conduct of investment activities under this Agreement.

2. The Parties shall endeavor to develop and adopt common criteria, definitions and interpretations for the implementation of this Chapter.

Article 1603: Grant of Temporary Entry

1. Each Party shall grant temporary entry to business persons who are otherwise qualified for entry under applicable measures relating to public health and safety and national security, in accordance with this Chapter, including the provisions of Annex 1603.

2. A Party may refuse to issue an immigration document authorizing employment to a business person where the temporary entry of that person might affect adversely:

- (a) the settlement of any labor dispute that is in progress at the place or intended place of employment; or
- (b) the employment of any person who is involved in such dispute.

3. When a Party refuses pursuant to paragraph 2 to issue an immigration document authorizing employment, it shall:

- (a) inform in writing the business person of the reasons for the refusal; and
- (b) promptly notify in writing the Party whose business person has been refused entry of the reasons for the refusal.

4. Each Party shall limit any fees for processing applications for temporary entry of business persons to the approximate cost of services rendered.

Article 1604: Provision of Information

- 1. Further to Article 1802 (Publication), each Party shall:
 - (a) provide to the other Parties such materials as will enable them to become acquainted with its measures relating to this Chapter; and
 - (b) no later than one year after the date of entry into force of this Agreement, prepare, publish and make available in its own territory, and in the territories of the other Parties, explanatory material in a consolidated document regarding the requirements for temporary entry under this Chapter in such a manner as will enable business persons of the other Parties to become acquainted with them.

2. Subject to Annex 1604.2, each Party shall collect and maintain, and make available to the other Parties in accordance with its domestic law, data respecting the granting of temporary entry under this Chapter to business persons of the other Parties who have been issued immigration documentation, including data specific to each occupation, profession or activity.

Article 1605: Working Group

1. The Parties hereby establish a Temporary Entry Working Group, comprising representatives of each Party, including immigration officials.

- 2. The Working Group shall meet at least once each year to consider:
 - (a) the implementation and administration of this Chapter;
 - (b) the development of measures to further facilitate temporary entry of business persons on a reciprocal basis;

- (c) the waiving of labor certification tests or procedures of similar effect for spouses of business persons who have been granted temporary entry for more than one year under Section B, C or D of Annex 1603; and
 - (d) proposed modifications of or additions to this Chapter.

Article 1606: Dispute Settlement

1. A Party may not initiate proceedings under Article 2007 (Commission - Good Offices, Conciliation and Mediation) regarding a refusal to grant temporary entry under this Chapter or a particular case arising under Article 1602(1) unless:

- (a) the matter involves a pattern of practice; and
- (b) the business person has exhausted the available administrative remedies regarding the particular matter.

2. The remedies referred to in paragraph (1)(b) shall be deemed to be exhausted if a final determination in the matter has not been issued by the competent authority within one year of the institution of an administrative proceeding, and the failure to issue a determination is not attributable to delay caused by the business person.

Article 1607: Relation to Other Chapters

Except for this Chapter, Chapters One (Objectives), Two (General Definitions), Twenty (Institutional Arrangements and Dispute Settlement Procedures) and Twenty-Two (Final Provisions) and Articles 1801 (Contacts Points), 1802 (Publication), 1803 (Notification and Provision of Information) and 1804 (Administrative Proceedings), no provision of this Agreement shall impose any obligation on a Party regarding its immigration measures.

Article 1608: Definitions

For purposes of this Chapter:

business person means a citizen of a Party who is engaged in trade in goods, the provision of services or the conduct of investment activities;

citizen means "citizen" as defined in Annex 1608 for the Parties specified in that Annex;

existing means "existing" as defined in Annex 1608 for the Parties specified in that Annex; and

temporary entry means entry into the territory of a Party by a business person of another Party without the intent to establish permanent residence.

16-4

Temporary Entry for Business Persons

Section A - Business Visitors

1. Each Party shall grant temporary entry to a business person seeking to engage in a business activity set out in Appendix 1603.A.1, without requiring that person to obtain an employment authorization, provided that the business person otherwise complies with existing immigration measures applicable to temporary entry, on presentation of:

- (a) proof of citizenship of a Party;
- (b) documentation demonstrating that the business person will be so engaged and describing the purpose of entry; and
- (c) evidence demonstrating that the proposed business activity is international in scope and that the business person is not seeking to enter the local labor market.

2. Each Party shall provide that a business person may satisfy the requirements of paragraph 1(c) by demonstrating that:

- (a) the primary source of remuneration for the proposed business activity is outside the territory of the Party granting temporary entry; and
- (b) the business person's principal place of business and the actual place of accrual of profits, at least predominantly, remain outside such territory.

A Party shall normally accept an oral declaration as to the principal place of business and the actual place of accrual of profits. Where the Party requires further proof, it shall normally consider a letter from the employer attesting to these matters as sufficient proof.

3. Each Party shall grant temporary entry to a business person seeking to engage in a business activity other than those set out in Appendix 1603.A.1, without requiring that person to obtain an employment authorization, on a basis no less favorable than that provided under the existing provisions of the measures set out in Appendix 1603.A.3, provided that the business person otherwise complies with existing immigration measures applicable to temporary entry.

4. No Party may:

- (a) as a condition for temporary entry under paragraph 1 or 3, require prior approval procedures, petitions, labor certification tests or other procedures of similar effect; or
- (b) impose or maintain any numerical restriction relating to temporary entry under paragraph 1 or 3.

5. Notwithstanding paragraph 4, a Party may require a business person seeking temporary entry under this Section to obtain a visa or its equivalent prior to entry. Before imposing a visa requirement, the Party shall consult, on request, with a Party whose business persons would be affected with a view to avoiding the imposition of the requirement. With respect to an existing visa requirement, a Party shall consult, on request, with a Party whose business persons are subject to the requirement with a view to its removal.

Section B - Traders and Investors

1. Each Party shall grant temporary entry and provide confirming documentation to a business person seeking to:

- (a) carry on substantial trade in goods or services principally between the territory of the Party of which the business person is a citizen and the territory of the Party into which entry is sought, or
- (b) establish, develop, administer or provide advice or key technical services to the operation of an investment to which the business person or the business person's enterprise has committed, or is in the process of committing, a substantial amount of capital, in a capacity that is supervisory, executive or involves essential skills,

provided that the business person otherwise complies with existing immigration measures applicable to temporary entry.

- 2. No Party may:
 - (a) as a condition for temporary entry under paragraph 1, require labor certification tests or other procedures of similar effect; or

(b) impose or maintain any numerical restriction relating to temporary entry under paragraph 1.

3. Notwithstanding paragraph 2, a Party may require a business person seeking temporary entry under this Section to obtain a visa or its equivalent prior to entry.

Section C - Intra-Company Transferees

1. Each Party shall grant temporary entry and provide confirming documentation to a business person employed by an enterprise who seeks to render services to that enterprise or a subsidiary or affiliate thereof, in a capacity that is managerial, executive or involves specialized knowledge, provided that the business person otherwise complies with existing immigration measures applicable to temporary entry. A Party may require the business person to have been employed continuously by the enterprise for one year within the three-year period immediately preceding the date of the application for admission.

2. No Party may:

- (a) as a condition for temporary entry under paragraph 1, require labor certification tests or other procedures of similar effect; or
- (b) impose or maintain any numerical restriction relating to temporary entry under paragraph 1.

3. Notwithstanding paragraph 2, a Party may require a business person seeking temporary entry under this Section to obtain a visa or its equivalent prior to entry. Before imposing a visa requirement, the Party shall consult with a Party whose business persons would be affected with a view to avoiding the imposition of the requirement. With respect to an existing visa requirement, a Party shall consult, on request, with a Party whose business persons are subject to the requirement with a view to its removal.

Section D - Professionals

1. Each Party shall grant temporary entry and provide confirming documentation to a business person seeking to engage in a business activity at a professional level in a profession set out in Appendix 1603.D.1, if the business person otherwise complies with existing immigration measures applicable to temporary entry, on presentation of:

- (a) proof of citizenship of a Party; and
- (b) documentation demonstrating that the business person will be so engaged and describing the purpose of entry.
- 2. No Party may:
 - (a) as a condition for temporary entry under paragraph 1, require prior approval procedures, petitions, labor certification tests or other procedures of similar effect; or
 - (b) impose or maintain any numerical restriction relating to temporary entry under paragraph 1.

3. Notwithstanding paragraph 2, a Party may require a business person seeking temporary entry under this Section to obtain a visa or its equivalent prior to entry. Before imposing a visa requirement, the Party shall consult with a Party whose business persons would be affected with a view to avoiding the imposition of the requirement. With respect to an existing visa requirement, a Party shall consult, on request, with a Party whose business persons are subject to the requirement with a view to its removal.

4. Notwithstanding paragraphs 1 and 2, a Party may establish an annual numerical limit, which shall be set out in Appendix 1603.D.4, regarding temporary entry of business persons of another Party seeking to engage in business activities at a professional level in a profession set out in Appendix 1603.D.1, if the Parties concerned have not agreed otherwise prior to the date of entry into force of this Agreement for those Parties. In establishing such a limit, the Party shall consult with the other Party concerned.

5. A Party establishing a numerical limit pursuant to paragraph 4, unless the Parties concerned agree otherwise:

- (a) shall, for each year after the first year after the date of entry into force of this Agreement, consider increasing the numerical limit set out in Appendix 1603.D.4 by an amount to be established in consultation with the other Party concerned, taking into account the demand for temporary entry under this Section;
- (b) shall not apply its procedures established pursuant to paragraph 1 to the temporary entry of a business person subject to the numerical limit, but

may require the business person to comply with its other procedures applicable to the temporary entry of professionals; and

(c) may, in consultation with the other Party concerned, grant temporary entry under paragraph 1 to a business person who practices in a profession where accreditation, licensing, and certification requirements are mutually recognized by those Parties.

6. Nothing in paragraph 4 or 5 shall be construed to limit the ability of a business person to seek temporary entry under a Party's applicable immigration measures relating to the entry of professionals other than those adopted or maintained pursuant to paragraph 1.

7. Three years after a Party establishes a numerical limit pursuant to paragraph 4, it shall consult with the other Party concerned with a view to determining a date after which the limit shall cease to apply.

Appendix 1603.A.1

Business Visitors

Research and Design

Technical, scientific and statistical researchers conducting independent research or research for an enterprise located in the territory of another Party.

Growth, Manufacture and Production

- Harvester owner supervising a harvesting crew admitted under applicable law.
- Purchasing and production management personnel conducting commercial transactions for an enterprise located in the territory of another Party.

Marketing

- Market researchers and analysts conducting independent research or analysis or research or analysis for an enterprise located in the territory of another Party.
 - Trade fair and promotional personnel attending a trade convention.

Sales

- Sales representatives and agents taking orders or negotiating contracts for goods or services for an enterprise located in the territory of another Party but not delivering goods or providing services.
- Buyers purchasing for an enterprise located in the territory of another Party.

Distribution

- Transportation operators transporting goods or passengers to the territory of a Party from the territory of another Party or loading and transporting goods or

passengers from the territory of a Party, with no unloading in that territory, to the territory of another Party.

With respect to temporary entry into the territory of the United States, Canadian customs brokers performing brokerage duties relating to the export of goods from the territory of the United States to or through the territory of Canada.

- With respect to temporary entry into the territory of Canada, United States customs brokers performing brokerage duties relating to the export of goods from the territory of Canada to or through the territory of the United States.
- Customs brokers providing consulting services regarding the facilitation of the import or export of goods.

After-Sales Service

- Installers, repair and maintenance personnel, and supervisors, possessing specialized knowledge essential to a seller's contractual obligation, performing services or training workers to perform services, pursuant to a warranty or other service contract incidental to the sale of commercial or industrial equipment or machinery, including computer software, purchased from an enterprise located outside the territory of the Party into which temporary entry is sought, during the life of the warranty or service agreement.

General Service

Professionals engaging in a business activity at a professional level in a profession set out in Appendix 1603.D.1.

- Management and supervisory personnel engaging in a commercial transaction for an enterprise located in the territory of another Party.
 - Financial services personnel (insurers, bankers or investment brokers) engaging in commercial transactions for an enterprise located in the territory of another Party.
 - Public relations and advertising personnel consulting with business associates, or attending or participating in conventions.

- Tourism personnel (tour and travel agents, tour guides or tour operators) attending or participating in conventions or conducting a tour that has begun in the territory of another Party.
- Tour bus operators entering the territory of a Party:
- (a) with a group of passengers on a bus tour that has begun in, and will return to, the territory of another Party;
- (b) to meet a group of passengers on a bus tour that will end, and the predominant portion of which will take place, in the territory of another Party; or
- (c) with a group of passengers on a bus tour to be unloaded in the territory of the Party into which temporary entry is sought, and returning with no passengers or reloading with the group for transportation to the territory of another Party.

Translators or interpreters performing services as employees of an enterprise located in the territory of another Party.

Definitions

For purposes of this Appendix:

territory of another Party means the territory of a Party other than the territory of the Party into which temporary entry is sought;

tour bus operator means a natural person, including relief personnel accompanying or following to join, necessary for the operation of a tour bus for the duration of a trip; and

transportation operator means a natural person, other than a tour bus operator, including relief personnel accompanying or following to join, necessary for the operation of a vehicle for the duration of a trip.

Appendix 1603.A.3

Existing Immigration Measures

1. In the case of Canada, subsection 19(1) of the Immigration Regulations, 1978, SOR/78-172, as amended, made under the Immigration Act, R.S.C. 1985, c. I-2, as amended.

2. In the case of the United States, section 101(a)(15)(B) of the Immigration and Nationality Act, 1952, as amended.

3. In the case of Mexico, Chapter III of the Ley General de Poblacion, 1974, as amended.

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Appendix 1603.D.1

Professionals

PROFESSION¹

General

Accountant

Architect

Computer Systems Analyst

Disaster Relief Insurance Claims Adjuster (claims adjuster employed by an insurance company located in the territory of a Party, or an independent claims adjuster)

Economist

Engineer

MINIMUM EDUCATION REQUIREMENTS AND ALTERNATIVE CREDENTIALS

Baccalaureate or Licenciatura Degree; or C.P.A., C.A., C.G.A. or C.M.A.

Baccalaureate or Licenciatura Degree; or state/provincial license²

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma³ or Post-Secondary Certificate⁴, and three years experience

Baccalaureate or Licenciatura Degree, and successful completion of training in the appropriate areas of insurance adjustment pertaining to disaster relief claims; or three years experience in claims adjustment and successful completion of training in the appropriate areas of insurance adjustment pertaining to disaster relief claims

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree; or state/provincial license

¹ A business person seeking temporary entry under this Appendix may also perform training functions relating to the profession, including conducting seminars.

² "State/provincial license" and "state/provincial/federal license" mean any document issued by a state, provincial or federal government, as the case may be, or under its authority, but not by a local government, that permits a person to engage in a regulated activity or profession.

³ "Post-Secondary Diploma" means a credential issued, on completion of two or more years of postsecondary education, by an accredited academic institution in Canada or the United States.

⁴ "Post-Secondary Certificate" means a certificate issued, on completion of two or more years of post-secondary education at an academic institution, by the federal government of Mexico or a state government in Mexico, an academic institution recognized by the federal government or a state government, or an academic institution created by federal or state law.

Forester

Graphic Designer

Hotel Manager

Industrial Designer

Interior Designer

Land Surveyor

Landscape Architect

Lawyer (including Notary in the Province of Quebec)

Librarian

Management Consultant

Mathematician (including Statistician)

Range Manager/ Range Conservationalist

Research Assistant (working in a post-secondary educational institution)

Baccalaureate or Licenciatura Degree; or state/provincial license

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma or Post-Secondary Certificate, and three years experience

Baccalaureate or Licenciatura Degree in hotel/restaurant management; or Post-Secondary Diploma or Post-Secondary Certificate in hotel/restaurant management, and three years experience in hotel/restaurant management

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma or Post-Secondary Certificate, and three years experience

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma or Post-Secondary Certificate, and three years experience

Baccalaureate or Licenciatura Degree; or state/provincial/federal license

Baccalaureate or Licenciatura Degree

LL.B., J.D., LL.L., B.C.L. or Licenciatura Degree (five years); or membership in a state/provincial bar

M.L.S. or B.L.S. (for which another Baccalaureate or Licenciatura Degree was a prerequisite)

Baccalaureate or Licenciatura Degree; or equivalent professional experience as established by statement or professional credential attesting to five years experience as a management consultant, or five years experience in a field of specialty related to the consulting agreement

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree

Scientific Technician/Technologist¹

Social Worker

Sylviculturist (including Forestry Specialist) Technical Publications Writer

Urban Planner (including Geographer) Vocational Counsellor

Medical/Allied Professional

Dentist

Dietitian

Medical Laboratory Technologist (Canada)/Medical Technologist (Mexico and the United States)²

Nutritionist

Occupational Therapist

Pharmacist

Possession of (a) theoretical knowledge of any of the following disciplines: agricultural sciences, astronomy, biology, chemistry, engineering, forestry, geology, geophysics, meteorology or physics; and (b) the ability to solve practical problems in any of those disciplines, or the ability to apply principles of any of those disciplines to basic or applied research

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma or Post-Secondary Certificate, and three years experience

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree

D.D.S., D.M.D., Doctor en Odontologia or Doctor en Cirugia Dental; or state/provincial license

Baccalaureate or Licenciatura Degree; or state/provincial license

Baccalaureate or Licenciatura Degree; or Post-Secondary Diploma or Post-Secondary Certificate, and three years experience

Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree; or state/provincial license

Baccalaureate or Licenciatura Degree; or state/provincial license

¹ A business person in this category must be seeking temporary entry to work in direct support of professionals in agricultural sciences, astronomy, biology, chemistry, engineering, forestry, geology, geophysics, meteorology or physics.

² A business person in this category must be seeking temporary entry to perform in a laboratory chemical, biological, hematological, immunologic, microscopic or bacteriological tests and analyses for diagnosis, treatment or prevention of disease.

Physician (teaching or research only)

Physiotherapist/Physical Therapist

Psychologist

Recreational Therapist Registered Nurse

Veterinarian

Scientist

Agriculturist (including Agronomist) Animal Breeder Animal Scientist Apiculturist Astronomer **Biochemist Biologist** Chemist Dairy Scientist Entomologist Epidemiologist Geneticist Geologist Geochemist Geophysicist (including Oceanographer in Mexico and the United States) Horticulturist

Meteorologist

M.D. or Doctor en Medicina; or state/provincial license

Baccalaureate or Licenciatura Degree; or state/provincial license

State/provincial license; or Licenciatura Degree

Baccalaureate or Licenciatura Degree

State/provincial license; or Licenciatura Degree

D.V.M., D.M.V. or Doctor en Veterinaria; or state/provincial license

Baccalaureate or Licenciatura Degree Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree Baccalaureate or Licenciatura Degree

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Pharmacologist

Physicist (including Oceanographer in Canada) Plant Breeder Poultry Scientist Soil Scientist Zoologist Baccalaureate or Licenciatura Degree Baccalaureate or Licenciatura Degree

Baccalaureate or Licenciatura Degree Baccalaureate or Licenciatura Degree Baccalaureate or Licenciatura Degree

Teacher

College Seminary

University

16-18

Appendix 1603.D.4

United States

1. Beginning on the date of entry into force of this Agreement as between the United States and Mexico, the United States shall annually approve as many as 5,500 initial petitions of business persons of Mexico seeking temporary entry under Section D of Annex 1603 to engage in a business activity at a professional level in a profession set out in Appendix 1603.D.1.

2. For purposes of paragraph 1, the United States shall not take into account:

- (a) the renewal of a period of temporary entry;
- (b) the entry of a spouse or children accompanying or following to join the principal business person;
- (c) an admission under section 101(a)(15)(H)(i)(b) of the *Immigration and Nationality Act*, 1952, as may be amended, including the worldwide numerical limit established by section 214(g)(1)(A) of that Act; or
- (d) an admission under any other provision of section 101(a)(15) of that Act relating to the entry of professionals.

3. Paragraphs 4 and 5 of Section D of Annex 1603 shall apply as between the United States and Mexico for no longer than:

- (a) the period that such paragraphs or similar provisions may apply as between the United States and any other Party other than Canada or any non-Party; or
- (b) 10 years after the date of entry into force of this Agreement as between such Parties,

whichever period is shorter.

Annex 1604.2

Provision of Information

The obligations under Article 1604(2) shall take effect with respect to Mexico one year after the date of entry into force of this Agreement.

Country - Specific Definitions

For purposes of this Chapter:

citizen means, with respect to Mexico, a national or a citizen according to the existing provisions of Articles 30 and 34, respectively, of the Mexican Constitution; and

existing means, as between:

- (a) Canada and Mexico, and Mexico and the United States, in effect on the date of entry into force of this Agreement; and
- (b) Canada and the United States, in effect on January 1, 1989.

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Country - Specific Definitions

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internet accord, as between

Canada and Maxico, and Marico and dis United States, in effect on the

Canada and the United States, in effect on January 1, 1989

Section 6: Appendices

Appendix L

Additional Border Crossing Information



U.S. Department of Justice Immigration and Naturalization Service



The North American Free Trade Agreement The United States, Canada, and Mexico

Ser y

What You Should Know to Make Business Travel Easier Avoid Surprises at the Border - Call Immigration First

Form M-316 (Rev. 12-17-93) N

The following Ports of Entry have Free Trade Specialists who may be able to provide you with the detailed information an necessary documentation you request. The Specialists cannot guarantee the admission of any applicant.

NORTHERN BORDER

| ALBANY CALAIS DERBY LINE EDMONTON HOULTON MADAWASKA NOYES PORTAL SUMAS TORONTO VANCOUVER | 518-472-7140 207-454-2546 802-873-3316 403-890-3549 207-945-0041 207-728-4565 218-823-6291 701-926-4221 206-988-4781 416-676-2563 604-278-2520 | BLAINE CALGARY DETROIT GRAND PORTAGE INTERNATIONAL FALLS NIAGARA OROVILLE RICHFORD SWEETGRASS VAN BUREN WINNIPEG | 206-332-8511 403-221-1728 313-568-6019 218-475-2494 218-283-8611 716-282-3141 509-476-3132 802-848-7766 406-335-2911 207-868-2202 204-783-5747 | BUFFALO CHAMPLAIN EASTPORT HIGHGATE SPRINGS JACKMAN NORTON PORT HURON SAULT STE. MARIE THOUSAND ISLAND VANCEBORO | 716-885-3367 518-298-8433 208-267-2183 802-868-3349 207-668-3151 802-822-5217 810-982-0493 906-632-8822 315-482-2681 207-788-3813 |
|--|--|--|--|---|--|
| SOUTHERN BOR | DER | | | | |
| ANDRADE CORPUS CHRISTI EAGLE PASS HIDALGO LUKEVILLE SAN ANTONIO TUCSON | 619-572-0565 512-888-7528 512-773-9205 210-843-2201 602-627-2816 512-229-5130 602-670-6130 | BROWNSVILLE DEL RIO EL PASO HOUSTON NOGALES SAN YSIDRO WESLACO | 210-548-2620 512-775-7528 915-540-3131 713-233-3710 602-287-3609 619-428-7311 210-565-9409 | CALEXICO DOUGLAS GALVESTON LAREDO ROMA SASABE | 619-357-1143 602-364-5532 409-766-3581 512-722-5400 210-849-1676 602-287-8816 |

ENTERING THE UNITED STATES OF AMERICA UNDER THE NORTH AMERICAN FREE TRADE AGREEMENT (NAFTA)

You must be a citizen of either Canada or Mexico. You must prove admissibility under all existing United States immigr laws. You must establish that you qualify as a visitor for business, a treaty trader or investor, an intracompany transferee professional.

DEFINITIONS:

1. <u>Visitor for business</u>: A person engaged in international business activities related to research and design, gr manufacture and production, marketing, sales, distribution, after-sales service, and other general services reflectin activities in a complete business cycle, and receiving no remuneration from a <u>United States source</u>.

2. <u>Treaty Trader</u>: A person coming to carry on substantial trade involving the flow of goods or services principally betwee United States and Canada or between the United States and Mexico. Over 50% of the international trade must be cond between the United States and the treaty country. The Treaty Trader must be a citizen of Canada or Mexico. An employe trader may also qualify as a treaty trader if he or she is entering the United States in an executive or supervisory capacity; employed in a lesser capacity, the employee must have skills which are essential to the efficient operation of the bust Issuance of a nonimmigrant visa is required prior to entry of both Canadians and Mexicans in this classification.

3. <u>Treaty Investor</u>: A citizen of either Canada or Mexico who is coming to the United States to develop and direct a bone enterprise in which they have made a substantial investment of capital and, thereby, own at least 50% or maintain a contriinterest. The employee of a treaty investor who will be employed in an executive or supervisory capacity, or who has skills us are essential to the operation of the business, may also be classified as a treaty investor. Issuance of a nonimmigrant v required prior to entry of both Canadians and Mexicans in this classification.

4. <u>Intracompany transferee</u>: A person coming to a United States parent, branch, subsidiary or affiliate of a foreign com The person must have been employed abroad by the foreign company for at least one year out of the preceding three executive, managerial, or specialized knowledge capacity. He or she must be coming to the United States for the purple employment in an executive, managerial, or specialized knowledge capacity. A petition must be filed in behalf o intracompany transferee on Form I-129 by either the United States or the foreign employer.

5. <u>Professional</u>: An alien who is a citizen of Canada or Mexico who seeks to enter the United States under and pursuant 1 provisions of Section D of Annex 1603 of the North American Free Trade Agreement to engage in business activities professional level.

6. <u>Dependents</u>: The spouse and children of the E - Treaty Trader or Treaty Investor are granted E status just like the prir but are not authorized employment. The spouse and children of an Intracompany Transferee are classified L-2 and may not The spouse and children of a professional alien are classified TD for Trade Dependent and are not authorized to a employment.

DOCUMENTATION:

1. A Canadian citizen seeking status as a visitor for business, an intracompany transferee, or a professional, may app admission at a Port of Entry without first obtaining a nonimmigrant visa. 2. A Mexican citizen seeking status as a visitor for business, an intracompany transferee, or a professional, may apply for admission at a Port of Entry after obtaining a nonimmigrant visa or Border Crossing Card when seeking status as a visitor for business, and the requisite nonimmigrant visa according classification as an intracompany transferee or a professional.

3. Both a Canadian and a Mexican citizen must proceed to a United States Consulate and have the requisite nonimmigrant visa inserted in their passport or other travel document when seeking status as a treaty trader or investor. This applies even if the Canadian citizen obtained a change of status to that of a treaty trader or investor. This is one of the few times when a Canadian citizen would need to present a visa at the time of application for admission.

PROCEDURES FOR PROFESSIONAL STATUS

1. A Canadian citizen seeking professional status would present evidence of citizenship, a letter of employment offering employment in professional status, evidence that he or she is in possession of said status, and appropriate evidence of compliance with state licensure requirements.

2. A Mexican citizen seeking professional status would present a nonimmigrant visa issued by a United States Consulate. This visa would be issued after a petition submitted by a would-be employer had first been approved.

3. Both the Canadian and the Mexican citizen may be admitted for a maximum initial period of one year in a professional status.

4. The current listing of professional occupations in Appendix 1603.D.1 is as follows:

| PROFESSION | MINIMUM EDUCATIONAL REQUIREMENTS AND ALTERNATIVE CREDENTIALS ¹ |
|--|---|
| Accountant | Baccalaureate or Licenciatura degree; or C.P.A., C.A., C.G.A., or C.M.A. |
| Architect | Baccalaureate or Licenciatura degree: or state/provincial license |
| Computer Systems Analyst | Baccalaureate or Licenciatura degree; or Post-Secondary Diploma or Post Secondary Certificate and three years' experience. |
| Disaster relief insurance claims adjuster (claims adjuster employed by an insurance company located in the territory | Baccalaureate or Licenciatura degree and successful completion of training in the appropriate areas of insurance adjustment pertaining to disaster relief claims; or three years experience in claims adjustment and successful completion of training in the appropriate areas of insurance adjustment pertaining to disaster relief claims. |
| of a Party, or an independent claims adjuster) | Verschaating D.V.M., D.M.V., or Doctorea Verscharfie of state/previnsion IV. and BCIENTIST |
| Economist | Baccalaureate or Licenciatura degree. |
| Engineer | Baccalaureate or Licenciatura degree: or state/provincial license |
| Forester | Baccalaureate or Licenciatura degree: or state/provincial license |
| Graphic designer | Baccalaureate or Licenciatura degree: or post-secondary diploma and three years experience |
| Hotel manager | diploma or post-secondary certificate in hotel/restaurant management; or post-secondary in hotel/restaurant management. |
| Industrial designer | Baccalaureate or Licenciatura degree; or post-secondary diploma or post-secondary certificate, and three years experience. |
| Interior designer | Baccalaureate or Licenciatura degree; or post-secondary diploma or post-secondary certificate, and three years experience. |
| Land surveyor | Baccalaureate or Licenciatura degree or state/provincial/federal license. |
| Landscape architect | Baccalaureate or Licenciatura degree. |
| Lawyer (including Notary in the province of Quebec) | L.L.B., J.D., L.L.L., B.C.L., or Licenciatura degree (five years); or membership in a state/ provincial bar. |
| Librarian | M.L.S., or B.L.S. (for which another Baccalaureate or Licenciatura degree was a prerequisite). |
| Management consultant | statement or professional credential attesting to five years experience as a management consultant, or five years experience in a field of specialty related to the consulting agreement. |
| Mathematician (including statistician) | Baccalaureate or Licenciatura degree. |
| Range manager/ Range conservationist | Baccalaureate or Licenciatura degree. |
| Research assistant | Baccalaureate or Licenciatura degree. |
| (working in a post- | Positive establish |
| secondary educational | |
| institution) | |

¹ For information regarding qualifications for the positions, additions or subtractions from Appendix 1603.D.1, and related information, you should contact your local Immigration and Naturalization Service office, or a Free Trade Specialist at one of the numbers listed on page 2.

PROFESSION

Scientific technician/ technologist

Social worker Sylviculturist (including forestry specialist) Technical publications writer Urban planner (including geographer) Vocational counselor

D.D.S., D.M.D., Doctor en Odontologia or Doctor en Cirugia Dental or state/provincial license. Baccalaureate or Licenciatura degree; or state/provincial license. Baccalaureate or Licenciatura degree; or post-secondary diploma or post secondary certificate, and three years experience.

Baccalaureate or Licenciatura degree. Baccalaureate or Licenciatura degree; or state/provincial license. Baccalaureate or Licenciatura degree; or state/provincial license. M.D., Doctor en Medicina: or state/provincial license.

Baccalaureate or Licenciatura degree; or state/provincial license.

State/provincial license: or Licenciatura degree. Baccalaureate or Licenciatura degree. State/provincial license or Licenciatura degree. D.V.M., D.M.V., or Doctor en Veterinaria; or state/provincial license.

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Possession of (a) theoretical knowledge of any of the following disciplines: agricultural sciences, astronomy, biology, chemistry, engineering, forestry, geology, geophysics, meteorology, or physics; and (b) the ability to solve practical problems in any of those disciplines, or the ability to apply principles of any of those disciplines to basic or applied research. Baccalaureate or Licenciatura degree. Baccalaureate or Licenciatura degree.

MINIMUM EDUCATIONAL REQUIREMENTS AND ALTERNATIVE CREDENTIALS

Baccalaureate or Licenciatura degree, or post-secondary diploma or post-secondary certificate, and three years experience. Baccalaureate or Licenciatura degree.

Baccalaureate or Licenciatura degree.

MEDICAL/ALLIED PROFESSIONALS

Dentist Dietitian Medical laboratory technologist(Canada)/ medical technologist (Mexico and the United States) Nutritionist Occupational therapist Pharmacist Physician (teaching or research only) Physiotherapist/ physical therapist Psychologist Recreational therapist **Registered** nurse Veterinarian

SCIENTIST

Agriculturist (agronomist) Animal breeder Animal scientist Apiculturist Astronomer **Biochemist** Biologist Chemist Dairy scientist Entomologist Epidemiologist Geneticist Geochemist Geologist Geophysicist (including oceanographer in Mexico and the United States) Horticulturist Meteorologist Pharmacologist Physicist (including Oceanographer in Canada) Plant Breeder Poultry scientist Soil scientist Zoologist

TEACHER

College Seminary University

Section 6: Appendices

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Appendix M

Harmonized Tariff Schedule

SHORESSION.

Sitentific technicken/

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physical champest Parchalogost Romestional therapist

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SECONDALIALIAN PROFESSIONALS

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General Rules of Interpretation:

GENERAL RULES OF INTERPRETATION

Classification of goods in the tariff schedule shall be governed by the following principles:

- 1. The table of contents, alphabetical index, and titles of sections, chapters and sub-chapters are provided for ease of reference only; for legal purposes, classification shall be determined according to the terms of the headings and any relative section or chapter notes and, provided such headings or notes do not otherwise require, according to the following provisions:
 - 2. (a) Any reference in a heading to an article shall be taken to include a reference to that article incomplete or unfinished, provided that, as entered, the incomplete or unfinished article has the essential character of the complete or finished article. It shall also include a reference to that article complete or finished (or falling to be classified as complete or finished by virtue of this rule), entered unassembled or disassembled.
 - (b) Any reference in a heading to a material or substance shall be taken to include a reference to mixtures or combinations of that material or substance with other materials or substances. Any reference to goods of a given material or substance shall be taken to include a reference to goods consisting wholly or partly of such material or substance. The classification of goods consisting of more than one material or substance shall be according to the principles of rule 3.
 - 3. When, by application of rule 2(b) or for any other reason, goods are, prima facie, classifiable under two or more headings, classification shall be effected as follows:
 - (a) The heading which provides the most specific description shall be preferred to headings providing a more general description. However, when two or more headings each refer to part only of the materials or substances contained in mixed or composite goods or to part only of the items in a set put up for retail sale, those headings are to be regarded as equally specific in relation to those goods, even if one of them gives a more complete or precise description of the goods.
 - (b) Mixtures, composite goods consisting of different materials or made up of different components, and goods put up in sets for retail sale, which cannot be classified by reference to 3(a), shall be classified as if they consisted of the material or component which gives them their essential character, insofar as this criterion is applicable.
 - (c) When goods cannot be classified by reference to 3(a) or 3(b), they shall be classified under the heading which occurs last in numerical order among those which equally merit consideration.
 - 4. Goods which cannot be classified in accordance with the above rules shall be classified under the heading appropriate to the goods to which they are most akin.
 - 5. In addition to the foregoing provisions, the following rules shall apply in respect of the goods referred to therein:
 - (a) Camera cases, musical instrument cases, gun cases, drawing instrument cases, necklace cases and similar containers, specially shaped or fitted to contain a specific article or set of articles, suitable for long-term use and entered with the articles for which they are intended, shall be classified with such articles when of a kind normally sold therewith. This rule does not, however, apply to containers which give the whole its essential character;
 - (b) Subject to the provisions of rule 5(a) above, packing materials and packing containers entered with the goods therein shall be classified with the goods if they are of a kind normally used for packing such goods. However, this provision is not binding when such packing materials or packing containers are clearly suitable for repetitive use.
 - 6. For legal purposes, the classification of goods in the subheadings of a heading shall be determined according to the terms of those subheadings and any related subheading notes and, *mutatis mutandis*, to the above rules, on the understanding that only subheadings at the same level are comparable. For the purposes of this rule, the relative section, chapter and subchapter notes also apply, unless the context otherwise requires.

Page 2

Annotated for Statistical Reporting Purposes

Additional U.S. Rules of Interpretation:

ADDITIONAL U.S. RULES OF INTERPRETATION

- 1. In the absence of special language or context which otherwise requires-
 - (a) a tariff classification controlled by use (other than actual use) is to be determined in accordance with the use in the United States at, or immediately prior to, the date of importation, of goods of that class or kind to which the imported goods belong, and the controlling use is the principal use;
 - (b) a tariff classification controlled by the actual use to which the imported goods are put in the United States is satisfied only if such use is intended at the time of importation, the goods are so used and proof thereof is furnished within 3 years after the date the goods are entered;
 - (c) a provision for parts of an article covers products solely or principally used as a part of such articles but a provision for "parts" or "parts and accessories" shall not prevail over a specific provision for such part or accessory; and
 - (d) the principles of section XI regarding mixtures of two or more textile materials shall apply to the classification of goods in any provision in which a textile material is named.

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Page 3

GENERAL NOTES

- 1. <u>Tariff Treatment of Imported Goods</u>. All goods provided for in this schedule and imported into the customs territory of the United States from outside thereof are subject to duty or exempt therefrom as prescribed in general notes 3 and 4.
- 2. <u>Customs Territory of the United States</u>. The term "customs territory of the United States", as used in the tariff schedule, includes only the States, the District of Columbia and Puerto Rico.
- 3. <u>Rates of Duty</u>. The rates of duty in the "Rates of Duty" columns designated 1 ("General" and "Special") and 2 of the tariff schedule apply to goods imported into the customs territory of the United States as hereinafter provided in this note:
 - (a) Rate of Duty Column 1.
 - (i) Except as provided in subparagraph (iv) of this paragraph, the rates of duty in column 1 are rates which are applicable to all products other than those of countries enumerated in paragraph (b) of this note. Column 1 is divided into two subcolumns, "General" and "Special", which are applicable as provided below.
 - (ii) The "General" subcolumn sets forth the general most-favored-nation (MFN) rates which are applicable to products of those countries described in subparagraph (i) above which are not entitled to special tariff treatment as set forth below.
 - (iii) The "Special" subcolumn reflects rates of duty under one or more special tariff treatment programs described in paragraph (c) of this note and identified in parentheses immediately following the duty rate specified in such subcolumn. These rates apply to those products which are properly classified under a provision for which a special rate is indicated and for which all of the legal requirements for eligibility for such program or programs have been met. Where a product is eligible for special treatment under more than one program, the lowest rate of duty provided for any applicable program shall be imposed. Where no special rate of duty is provided for a provision, or where the country from which a product otherwise eligible for special treatment was imported is not designated as a beneficiary country under a program appearing with the appropriate provision, the rates of duty in the "General" subcolumn of column 1 shall apply.
 - (iv) Products of Insular Possessions.
 - Except as provided in additional U.S. note 5 of chapter 91 and except as provided in (A) additional U.S. note 2 of chapter 96, and except as provided in section 423 of the Tax Reform Act of 1986, goods imported from insular possessions of the United States which are outside the customs territory of the United States are subject to the rates of duty set forth in column 1 of the tariff schedule, except that all such goods the growth or product of any such possession, or manufactured or produced in any such possession from materials the growth, product or manufacture of any such possession or of the customs territory of the United States, or of both, which do not contain foreign materials to the value of more than 70 percent of their total value (or more than 50 percent of their total value with respect to goods described in section 213(b) of the Caribbean Basin Economic Recovery Act), coming to the customs territory of the United States directly from any such possession, and all goods previously imported into the customs territory of the United States with payment of all applicable duties and taxes imposed upon or by reason of importation which were shipped from the United States, without remission, refund or drawback of such duties or taxes, directly to the possession from which they are being returned by direct shipment, are exempt from duty.
 - (B) In determining whether goods produced or manufactured in any such insular possession contain foreign materials to the value of more than 70 percent, no material shall be considered foreign which either-
 - (1) at the time such goods are entered, or
 - (2) at the time such material is imported into the insular possession,

may be imported into the customs territory from a foreign country, and entered free of duty; except that no goods containing material to which (2) of this subparagraph applies shall be exempt from duty under subparagraph (A) unless adequate documentation is supplied to show that the material has been incorporated into such goods during the 18-month period after the date on which such material is imported into the insular possession.

Page 4

General note 3(a)(iv) (con.):

- (C) Subject to the limitations imposed under sections 503(b) and 504(c) of the Trade Act of 1974, goods designated as eligible under section 503 of such Act which are imported from an insular possession of the United States shall receive duty treatment no less favorable than the treatment afforded such goods imported from a beneficiary developing country under title V of such Act.
- (D) Subject to the provisions in section 213 of the Caribbean Basin Economic Recovery Act, goods which are imported from insular possessions of the United States shall receive duty treatment no less favorable than the treatment afforded such goods when they are imported from a beneficiary country under such Act.
- (E) Subject to the provisions in section 204 of the Andean Trade Preference Act, goods which are imported from insular possessions of the United States shall receive duty treatment no less favorable than the treatment afforded such goods when they are imported from a beneficiary country under such Act.
- (b) <u>Rate of Duty Column 2</u>. Notwithstanding any of the foregoing provisions of this note, the rates of duty shown in column 2 shall apply to products, whether imported directly or indirectly, of the following countries and areas pursuant to section 401 of the Tariff Classification Act of 1962, to section 231 or 257(e)(2) of the Trade Expansion Act of 1962, to section 404(a) of the Trade Act of 1974 or to any other applicable section of law, or to action taken by the President thereunder:

| Afghanistan | Kampuchea | Tajikistan |
|-------------|-------------|------------|
| Azerbaijan | Laos | Uzbekistan |
| Cuba | North Korea | Vietnam |

(c) Products Eligible for Special Tariff Treatment.

(i) Programs under which special tariff treatment may be provided, and the corresponding symbols for such programs as they are indicated in the "Special" subcolumn, are as follows:

| Generalized System of Preferences | A or A* |
|---------------------------------------|---------|
| Automotive Products Trade Act | B |
| Agreement on Trade in Civil Aircraft | C |
| North American Free Trade Agreement: | |
| Goods of Canada, under the terms of | |
| general note 12 to this schedule. | CA |
| Goods of Mexico, under the terms of | |
| general note 12 to this schedule | MX |
| Caribbean Basin Economic Recovery Act | E or E* |
| United States-Israel Free Trade Area | IL |
| Andean Trade Preference Act | J or J* |

- (ii) Articles which are eligible for the special tariff treatment provided for in general notes 4 through 12 and which are subject to temporary modification under any provision of subchapters I and II of chapter 99 shall be subject, for the period indicated in the "Effective Period" column in chapter 99, to rates of duty as follows:
 - (A) if a rate of duty for which the article may be eligible is set forth in the "Special" subcolumn in chapter 99 followed by one or more symbols described above, such rate shall apply in lieu of the rate followed by the corresponding symbol(s) set forth for such article in the "Special" subcolumn in chapters 1 to 98; or
 - (B) if "No change" appears in the "Special" subcolumn in chapter 99 and subdivision (c)(ii)(A) above does not apply, the rate of duty in the "General" subcolumn in chapter 99 or the applicable rate(s) of duty set forth in the "Special" subcolumn in chapters 1 to 98, whichever is lower, shall apply.
 - (iii) Unless the context requires otherwise, articles which are eligible for the special tariff treatment provided for in general notes 4 through 12 and which are subject to temporary modification under any provision of subchapters III or IV of chapter 99 shall be subject, for the period indicated in chapter 99, to the rates of duty in the "General" subcolumn in such chapter.

Page 5

General note 3(c) (con.):

- (iv) Whenever any rate of duty set forth in the "Special" subcolumn in chapters 1 to 98 is equal to or higher than, the corresponding rate of duty provided in the "General" subcolumn in such chapters, such rate of duty in the "Special" subcolumn shall be deleted; except that, if the rate of duty in the "Special" subcolumn is an intermediate stage in a series of staged rate reductions for that provision, such rate shall be treated as a suspended rate and shall be set forth in the "Special" subcolumn, followed by one or more symbols described above, and followed by an "s" in parentheses. If no rate of duty for which the article may be eligible is provided in the "Special" subcolumn for a particular provision in chapters 1 to 98, the rate of duty provided in the "General" subcolumn shall apply.
- Products of Countries Designated Beneficiary Developing Countries for Purposes of the Generalized System 4. of Preferences (GSP).
 - The following countries, territories and associations of countries eligible for treatment as one country (pursuant to section 502(a)(3) of the Trade Act of 1974 (19 U.S.C. 2462(a)(3)) are designated **(a)** beneficiary developing countries for the purposes of the Generalized System of Preferences, provided for in Title V of the Trade Act of 1974, as amended (19 U.S.C. 2461 et seq.):

Albania Angola Antigua and Barbuda Argentina Bahamas, The Bahrain Bangladesh Barbados Belize Benin Bhutan Bolivia Botswana Brazil Bulgaria **Burkina** Faso Burundi Cameroon Cape Verde Central African Republic Chad Chile Colombia Comoros Congo Costa Rica Cote d'Ivoire Cyprus Czech Republic Djibouti Dominica Dominican Republic Ecuador Egypt El Salvador Equatorial Guinea Estonia Ethiopia Fiii Gambia. The Ghana

Independent Countries

Grenada Guatemala Guines Guinea Bissau Guyana Haiti Honduras Hungary India Indonesia Israel Jamaica Jordan Kenya Kiribati Kyrgyzstan Latvia Lebanon Lesotho Lithuania Madagascar Malawi Malaysia Maldives Mali Malta Mauritius Morocco Mozambique Namibia Nepal Niger Oman Pakistan Panama Papua New Guinea Paraguay Peru Philippines Poland Russia

Rwanda St. Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines Sao Tome and Principe Senegal Seychelles Sierra Leone Slovakia Solomon Islands Somalia Sri Lanka Suriname Swaziland Syria 1/ Tanzania Thailand Togo Tonga Trinidad and Tobago Tunisia Turkey Tuvalu Uganda Uruguay Vanuatu Venezuela Western Samoa Yemen Arab Republic (Sanaa) Zaire Zambia Zimbabwe Each of the former republics of the Socialist Federal Republic of Yugoslavia other than Serbia and Montenegro

Page 6

General note 4(a) (con.):

Anguilla Aruba British Indian Ocean Territory Cayman Islands Christmas Island (Australia) Cocos (Keeling) Islands Cook Islands Falkland Islands (Islas Malvinas)

Non-Independent Countries and Territories

French Polynesia Gibraltar Greenland Heard Island and McDonald Islands Macau Montserrat Netherlands Antilles New Caledonia Niue Norfolk Island Pitcairn Islands Saint Helena Tokelau Trust Territory of the Pacific Islands (Palau) Turks and Caicos Islands Virgin Islands, British Wallis and Futuna Western Sahara

Associations of Countries (treated as one country)

<u>Member Countries</u> <u>of the</u> <u>Cartagena Agreement</u> (Andean Group)

Consisting of:

Bolivia Colombia Ecuador Peru Venezuela <u>Members of the</u> <u>Association of</u> <u>South East Asian</u> <u>Nations (ASEAN)</u> <u>Eligible for GSP</u> <u>except Brunei</u> <u>Darussalam</u> and Singapore

Consisting of:

Indonesia Malaysia Philippines Thailand <u>Member Countries</u> <u>of the</u> <u>Caribbean Common</u> Market (CARICOM)

Consisting of:

Antigua and Barbuda Bahamas, The Barbados Belize Dominica Grenada Guyana Jamaica Montserrat St. Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines Trinidad and Tobago

CHAPTER 37

PHOTOGRAPHIC OR CINEMATOGRAPHIC GOODS

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Notes

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This chapter does not cover waste or scrap materials. 1.

In this chapter the word "<u>photographic</u>" relates to a process which permits the formation of visible images directly or indirectly by the action of light or other forms of radiation on sensitive surfaces. 2.

HARMONIZED TARIFF SCHEDULE of the United States (1994) - Supplement 1

VI 37-2

Annotated for Statistical Reporting Purposes

| Heading/ | Stat. | Article Description | Units | | Rates of Duty | |
|------------|----------------|---|--------------------------------------|---------|--------------------------------|-------------|
| Subheading | fix | | Quantity | General | Special | 2 |
| 3701 | | Photographic plates and film in the flat, sensi- tized, unexposed, of any material other than paper, paperboard or textiles; instant print film in the flat, sensitized, unexposed, whether or not | | and the | | |
| 701.10.00 | | in packs: For X-ray | | 3.72 | Free (A*, CA, E, IL, J, MX) | 252 |
| 701.20.00 | 30 60 | Medical, other than dental Other Instant print film | ਸ਼ੇ ਸ਼ੇ | 3.7% | Free (A*,CA,E,IL, | 257 |
| 701.30.00 | 30 60 00 | For color photography (polychrome) Other Other plates and film, with any side | No. No. | | J,MX) | 1 |
| | | exceeding 255 mm | m² | 3.7% | Free (A*,CA,E,IL, J,MX) | 252 |
| 701.91.00 | 20 | Other: For color photography (polychrome) Disc film | | 3.72 | Free (A*,CA,E,IL, J,MX) | 25 z |
| 701.99 | 30 60 | Other: | No. X | | | |
| 701.99.30 | 00 | Dry plates Other | a² | 4.9Z | J,MX) | 202 |
| | 30 | Graphic arts film Other | ਕ ਜ | | J,MX) | |
| 02 | 00 | Photographic film in rolls, sensitized, unexposed, of any material other than paper, paperboard or textiles; instant print film in rolls, sensitized, | | | | |
| 02.10.00 | | unexposed: For X-ray | | 3.72 | Free (A*,CA,E,IL, J,MX) | 252 |
| 02.20.00 | 30 60 00 | Medical, other than dental Other Instant print film | ช้ ชื่าชื่ | 3.72 | Free (A*, CA, E, IL, J,MX) | 25 z |
| 02.31.00 | 00 | Other film, without sprocket holes, of a width not exceeding 105 mm: For color photography (polychrome) | No | 3.72 | Free (A*,CA,E,IL, J.MX) | 252 |
| 02.32.00 | | Other, with silver halide emulsion | a | 3.72 | Free (A*, CA, E, IL, J, MX) | 252 |
| 02.39.00 | 30 60 00 | Other | m² | 3.7% | Free (A*,CA,E,IL, J,MX) | 252 |
| 02.41.00 | 00 | Other film, without sprocket holes, of a width exceeding 105 mm: Of a width exceeding 610 mm and of a length exceeding 200 m, for color photography (polychrome) | a² | 3.7% | Free (A*,CA,E,IL, | 252 |
| 02.42.00 | 00 | Of a width exceeding 610 mm and of a length exceeding 200 m, other than for color photography | a ² | 3.72 | J,MX) Free (A*,CA,E,IL, | 25 2 |
| 02.43.00 | 00 | Of a width exceeding 610 mm and of a length not exceeding 200 m | | 3.72 | J,MX) | 25 Z |
| 2.44.00 | | Of a width exceeding 105 mm but not | | | J,M2() | |
| | 30 | exceeding 610 mm Graphic arts film Other. | m ² m ² | 3.72 | Free (A*, CA, E, IL, J,MX) | 25 X |
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Annotated for Statistical Reporting Purposes

| and the state | Stat. | Antiple Description | Units | S. Signal | 1 | - |
|--|-------------------------|--|-----------------------|--|---|----------------|
| Heading/ ubheading | Suf- fix | Article Description | Quantity | General | Special | 2 |
| 702 (con.) | | Photographic film in rolls, sensitized, unexposed, | and there was | | A Proprieto Contra C | |
| 702 (2011. | | Photographic film in the paper, paperboard or of any material other than paper, paperboard or textiles; instant print film in rolls, sensitized, | Anth when a | | als realized | 1. 22.1 |
| | | | CARDON CLART | | the the second design of the second | 1.45.,65.7 |
| | | Other film, for color photography (poly- | THE F CLASS | | the states satisfy the | Constant. |
| | | chrome). | | | and sector and a start of the | |
| 702.51.00 | 00 | Of a width not exceeding 15 mm and of a length not exceeding 14 m | Nov | 3.7% | Free (A*, CA, E, IL, | 252 |
| | | and the set of all the set of a set of the s | m ² | | J,MX) | |
| 702.52.00 | | Of a width not exceeding 15 mm and of | Constraint State | 3.72 | Free (A*, CA, E, IL, | 25% |
| 102.52.00 | | a length exceeding 14 m | | 3.74 | J.MX) | |
| State The State | | Reversal color film | m² | | NI 12 | 106,001 |
| | 30 | Other | m² | | | |
| 702.53.00 | | Of a width exceeding 16 mm but not | receipt a ser | | | |
| 102.33.00 | | exceeding 35 mm and of a length not exceeding 30 m, for slides | | 3.72 | Free (A*, CA, E, IL, | 25% |
| | | and another an and all the second | | Other. | J,MX) | |
| a na standard | 30 | 35 mm | No. | | | I and the |
| and and a | 60 | Other | No. | | | |
| 3702.54.00 | | Of a width exceeding 15 mm but not exceeding 35 mm and of a length not | | | | |
| | 1000 | exceeding 30 m, other than for slides | | 3.72 | Free (A*, CA, E, IL, | 25% |
| and the too | | The second fight and the second to be and the | · · · · Bergal · · · | | J,MX) | |
| | 30 | 35 mm | No. No. | | In Distancemports | |
| enter anter de | 60 | Of a width exceeding 16 mm but not | NO. | | and there is and | |
| 3702.55.00 | | exceeding 35 mm and of a length | and the second | | 100 (Contraction and and | |
| | | arcanding 30 m | | Free | stel Cloub SE | 38¢/m² |
| Carl Strange | 30 | Reversal color film | 8 | 1012 20 NR (313 | 14 TO 10 TO | - 64 / 66 |
| | 60 | Other Of a width exceeding 35 mm | | Free | The second second | 38¢/m² |
| 3702.56.00 | | Motion-picture film | m v | | . 2019 | |
| | 30 | | m ² | | | |
| | 60 | Other | m ² | | The second second second second | 1000 |
| | 100 64 | Other: Of a width not exceeding 16 mm and of | and the second second | and the second | | |
| 3702.91.00 | 00 | a length not exceeding 14 m | No | 3.72 | Free (A*, CA, E, IL, | 252 |
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| | 20.00 | length exceeding 14 m | | 3.72 | J,MX) | 152.01 |
| | | Of a width exceeding 16 mm but not | al descenses a | olesi zad mit | la 3x re | |
| 3702.93.00 | 00 | exceeding 35 mm and of a length not | | in esussiere | Free (A*, CA, E, IL | 25% |
| | and the second | exceeding 30 m | No | 3.72 | J.MX) | |
| | | Of a width exceeding 16 mm but not | and the second | and the summerican | | |
| 3702.94.00 | 00 | exceeding 35 mm and of a length | and absorbars | AND LOUGH | | |
| | 1.5.1.1.1 | exceeding 30 m | | Free | | 38¢/m |
| | | | m ² | 3.72 | Free (A*, CA, E, IL | 252 |
| 3702.95.00 | 00 | Of a width exceeding 35 mm | | 3.74 | J,MX) | |
| a and the second | 1000 | Photographic paper, paperboard and textiles, | | an an an an anna | and the second second | |
| 3703 | La Ser | consitized imernosed: | the sec | Charles States | | and the second |
| 3703.10 | | In rolls of a width exceeding 610 mm: | a second second | 3.72 | Free (A*, CA, E, IL | . 30Z |
| 3703.10.30 | Non-Ser | Silver halide papers | | 0.74 | J,MX) | |
| | | For pictorial use (continuous | A TO MOA | and heaterstands | the part and proved | |
| | 1 1 1 1 | tone): | The sector of | Contract and the | a state and a | |
| | 30 | For color photography (poly- | m ² | | | |
| | 1 2 9 7 3 | chrome) | - | The states | The second second second second | |
| | - | Other | | an angene La | obus Ci | 1 1 0 0 0 |
| | 60 90 | Other (line reproduction) | m ² | - | Free (A*, CA, E, IL | . 30Z |
| 3703.10.60 | | Other | | · 3.1Z | J,MX) | 1 100 10 |
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| A REAL PROPERTY OF STREET, STR | | | | | | |
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VI 37-3

VI 37-4

Annotated for Statistical Reporting Purposes

| Heading/ Subheading | Sut- | Article Description | of | And and a state of the state of | and the second se | - |
|------------------------|-----------|--|---|--|---|-----------------------|
| | TIX | The second s | Quantity | General | Special | 2 |
| 3703 (con. | - | Photographic paper, paperboard and textiles, | Sec. Carlo | Sector in the | Later wanter in | and an area |
| | | sensitized, unexposed (con.): | | and selfer In | atom were to | 1 and a second |
| 3703.20 | | Other, for color photography (polychrome): Silver halide papers | an rolling | 3.72 | Free (A*, CA, E, IL, | 302 |
| 3703.20.30 | | | | 3.74 | J,MX) | 304 |
| | 30 | For pictorial use (continuous | | | and the second second | |
| | 120.1 | tone) | m ² | NO JUN KONTAN | 2 | 102.22.30 |
| | 60 | Other (line reproduction) | _ 2 | and the second second | | |
| 3703.20.60 | 00 | Other | œ ² | 3.12 | Free (A*, CA, E, IL, | 307 |
| 22 | 1 million | 10. W with one with the second free w. O. | Second Alt | a fibri was a langa | J,MX) | |
| 3703.90 3703.90.30 | 100.1 | Other: Silver halide papers | | 3.7% | Free (A*, CA, E, IL, | 30ž |
| 3703.30.30 | | STILL Harres babers | | •••• | J,MX) | |
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| | 30 | tone): In sheets | a ² | a set of period | | |
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| | 90 | Other (line reproduction) | m ² | 100 Mar 100 | | |
| 3703.90.60 | 00 | Other | | 2.8% | Free (A*, CA, E, IL, J, MX) | 35Z |
| | 100 | All and a second s | 100 100 100 100 | and the second | J,MA) | 746.34.34T |
| 3704.00.00 | 00 | Photographic plates, film, paper, paperboard and | | | Constant In 1 | |
| | | textiles, exposed but not developed | m² | Free | | \$3.88/m ² |
| | | The states and file amount and | a second day of | and the second second | | |
| 3705 | | Photographic plates and film, exposed and developed, other than motion-picture film: | | And | | and the same |
| 3705.10.00 | 00 | For offset reproduction | No | Free | | 252 |
| 3705.20 | | Microfilms: | | and the strategy | | |
| 3705.20.10 | 00 | Of articles of subheading 4901.91.00, 4901.99.00, 4902.10.00, 4902.90, | | and an article | | |
| Salas | | 4903.00.00, 4906.00.00, 4911.10.00 or | San and | Salar Salar | | 60.88.803 |
| | | 9503.60.10 | X | Free | | Free |
| 3705.20.50 | 00 | Other | x | Free | | 252 |
| 3705.90.00 | 00 | Other | | Free | Constant Providence | Free |
| | | | The street | AL SIN STRING | 10 | 17. 28. 375 |
| 3706 | | Motion-picture film, exposed and developed, whether or not incorporating sound track or consisting only | and the second | ACTION AND ADDRESS | A day the providence | E. |
| | | or not incorporating sound track or consisting only of sound track: | Service and | and the second second | | an in man |
| 3705.10 | | Of a width of 35 mm or more: | - Re Vi | Supervision and | | |
| 3706.10.30 | 00 | Sound recordings on motion-picture film | | The second | | |
| | | suitable for use in connection with motion-picture exhibits | | 0.66¢/m | Free (A*, CA, E, IL, | 3.3¢/m |
| The second | | motion-piccure exhibits | | | J,MX) | |
| 3706.10.60 | | Other | | Free | | 10¢/m |
| | | Feature films: Positive release prints | | and the distance of | | 102-101-504 |
| | 30 | Other | | | | |
| | 90 | Other | • | | | |
| 706.90.00 | | Other | | Free | 010 | 10¢/m |
| | 30 | Positive release prints Other | | | | and the second |
| | 60 | | | | | |
| 707 | | Chemical preparations for photographic uses (other | 025. Justices | | and adventise in | 01,102 |
| | | than varnishes, glues, adhesives and similar preparations); unmixed products for photographic | | | | Sec. Sec. Char |
| | | uses, put up in measured portions or put up for | Contraction of the second | | | |
| | | retail sale in a form ready for use: | | The second s | | 207 |
| 707.10.00 | 00 | Sensitizing emulsions | X | 32 | Free (A*, CA, E, IL, J, MX) | 204 |
| 707.90 | | Other: | State States | | 0, | |
| 707.90.30 | 00 | Chemical preparations for photo- | | | | 20 10000 |
| | | graphic uses | kg | 8.57 <u>1</u> / | Free (A*, CA, E, IL, J,MX) | 15.4¢/kg - 50Z |
| | | Unmixed products for photographic uses, | | č., | 5,00 | 50- |
| 707.90.60 | 00 | mut up in measured portions or put up | | | | |
| | | for retail sale in a form ready for | | 1 69 11 | Free (in CL F T | 4.52 |
| | - | use | kg | 1.52 <u>1</u> / | Free (A*,CA,E,IL, J.MX) | 4.34 |
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1/ See heading 9902.37.07.

HARMONIZED TARIFF SCHEDULE of the United States (1994) - Supplement 1 Annotated for Statistical Reporting Purposes

PLASTICS AND ARTICLES THEREOF

VII 39-1

Notes

 Throughout the tariff schedule the expression "<u>plastics</u>" means those materials of headings 3901 to 3914 which are or have been capable, either at the moment of polymerization or at some subsequent stage, of being formed under external influence (usually heat and pressure, if necessary with a solvent or plasticizer) by molding, casting, extruding, rolling or other process into shapes which are retained on the removal of the external influence.

Throughout the tariff schedule, any reference to "plastics" also includes vulcanized fiber. The expression, however, does not apply to materials regarded as textile materials of section XI.

- 2. This chapter does not cover:
 - (a) Waxes of heading 2712 or 3404;
 - (b) Separate chemically defined organic compounds (chapter 29);
 - (c) Heparin or its salts (heading 3001);
 - (d) Stamping foils of heading 3212;
 - (e) Organic surface-active agents or preparations of heading 3402;
 - (f) Run gums or ester gums (heading 3806);
 - (g) Synthetic rubber, as defined for the purposes of chapter 40, or articles thereof;
 - (h) Saddlery or harness (heading 4201) or trunks, suitcases, handbags or other containers of heading 4202;
 - (ij) Plaits, wickerwork or other articles of chapter 46;
 - (k) Wall coverings of heading 4814;
 - (1) Goods of section XI (textiles and textile articles);
 - (m) Articles of section XII (for example, footwear, headgear, umbrellas, sun umbrellas, walking-sticks, whips, riding-crops or parts thereof);
 - (n) Imitation jewelry of heading 7117;
 - (o) Articles of section XVI (machines and mechanical or electrical appliances);
 - (p) Parts of aircraft or vehicles of section XVII;
 - (q) Articles of chapter 90 (for example, optical elements, spectacle frames, drawing instruments);
 - (r) Articles of chapter 91 (for example, clock or watch cases);
 - (s) Articles of chapter 92 (for example, musical instruments or parts thereof);
 - Articles of chapter 94 (for example, furniture, lamps and lighting fittings, illuminated signs, prefabricated buildings);
 - (u) Articles of chapter 95 (for example, toys, games, sports equipment); or
 - (v) Articles of chapter 96 (for example, brushes, buttons, slide fasteners, combs, mouthpieces or stems for smoking pipes, cigarette holders or the like, parts of vacuum flasks or the like, pens, mechanical pencils).
- 3. Headings 3901 to 3911 apply only to goods of a kind produced by chemical synthesis, falling in the following categories:
 - (a) Liquid synthetic polyolefins of which less than 60 percent by volume distills at 300°C, after conversion to 1,013 millibars when a reduced-pressure distillation method is used (headings 3901 and 3902);
 - (b) Resins, not highly polymerized, of the coumarone-indene type (heading 3911);
 - (c) Other synthetic polymers with an average of at least five monomer units;
 - (d) Silicones (heading 3910);
 - (e) Resols (heading 3909) and other prepolymers.

Annotated for Statistical Reporting Purposes

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4. For the purposes of this chapter, except where the context otherwise requires, copolymers (including co-polycondensates, co-polyaddition products, block copolymers and graft copolymers) and polymer blends are to be classified in the heading covering polymers of that comonomer which predominates by weight over every other single comonomer, comonomers whose polymers fall in the same heading being regarded as constituting a single comonomer.

If no single comonomer predominates, copolymers or polymer blends, as the case may be, are to be classified in the heading which occurs last in numerical order among those which equally merit consideration.

The expression "copolymers" covers all polymers in which no single monomer contributes 95 percent or more by weight to the total polymer content.

- 5. Chemically modified polymers, that is, those in which only appendages to the main polymer chain have been changed by chemical reaction, are to be classified in the heading appropriate to the unmodified polymer. This provision does not apply to graft copolymers.
- 5. In headings 3901 to 3914, the expression "primary forms" applies only to the following forms:
 - (a) Liquids and pastes, including dispersions (emulsions and suspensions) and solutions;
 - (b) Blocks of irregular shape, lumps, powders (including molding powders), granules, flakes and similar bulk forms.
- 7. Heading 3915 does not apply to waste, parings and scrap of a single thermoplastic material, transformed into primary forms (headings 3901 to 3914).
- 8. For the purposes of heading 3917, the expression "tubes, pipes and hoses" means hollow products, whether semimanufactures or finished products, of a kind generally used for conveying, conducting or distributing gases or liquids (for example, ribbed garden hose, perforated tubes). This expression also includes sausage casings and other lay-flat tubing. However, except for the last mentioned, those having an internal cross section other than round, oval, rectangular (in which the langth does not exceed 1.5 times the width) or in the shape of a regular polygon are not to be regarded as tubes, pipes and hoses, but as profile shapes.
- 9. For the purposes of heading 3918, the expression "wall or ceiling coverings of plastics" applies to products in rolls, of a width not less than 45 cm, suitable for wall or ceiling decoration, consisting of plastics fixed permanently on a backing of any material other than paper, the layer of plastics (on the face side) being grained, embossed, colored, design-printed or otherwise decorated.
- 10. In headings 3920 and 3921, the expression "<u>plates</u>, sheets, film, foil and strip" applies only to plates, sheets, film, foil and strip (other than those of chapter 54) and to blocks of regular geometric shape, whether or not printed or otherwise surface-worked, uncut or cut into rectangles (including squares) but not further worked (even if when so cut they become articles ready for use).
- 11. Heading 3925 applies only to the following articles, not being products covered by any of the earlier headings of subchapter II:
 - (a) Reservoirs, tanks (including septic tanks), vats and similar containers, of a capacity exceeding 300 liters;
 - (b) Structural elements used, for example, in floors, walls or partitions, ceilings or roofs;
 - (c) Gutters and fittings therefor;
 - (d) Doors, windows and their frames and thresholds for doors;
 - (e) Balconies, balustrades, fencing, gates and similar barriers;
 - (f) Shutters, blinds (including venetian blinds) and similar articles and parts and fittings thereof;
 - (g) Large-scale shelving for assembly and permanent installation, for example, in shops, workshops, warehouses;
 - (h) Ornamental architectural features, for example, flutings, cupolas, dovecotes; and
 - (ij) Fittings and mountings intended for permanent installation in or on doors, windows, staircases, walls or other parts of buildings, for example, knobs, handles, hooks, brackets, towel rails, switch plates and other protective plates.

Subheading Note

1. Within any one heading of this chapter, copolymers (including co-polycondensates, co-polyaddition products, block copolymers and graft copolymers) are to be classified in the same subheading as homopolymers of the predominant commomer and chemically modified polymers of the kind specified in note 5 are to be classified in the same subheading as the unmodified polymer, provided that such copolymers or chemically modified polymers are not more specifically covered by any other subheading and that there is no residual subheading named "Other" in the series of subheadings concerned. Folymer blends are to be classified in the same subheading as copolymers (or homopolymers, as the case may be) of the same monomers in the same proportions.

VII 39-3

Additional U.S. Notes

- For the purposes of this chapter, the term "<u>elastomeric</u>" means a plastics material which after cross-linking can be stretched at 20°C to at least three times its original length and that, after having been stretched to twice its original length and the stress removed, returns within five minutes to less than 150 percent of its original length. Elastomeric plastics may also contain fillers, extenders, pigments or rubber-processing chemicals, whether or not such plastics material, after the addition of such fillers, extenders, pigments or chemicals, can meet the tests specified in the first 1. part of this note.
- For the purposes of heading 3916, the rate of duty "Free (B)" appearing in the "Special" subcolumn applies only to articles measuring not more than 38.1 cm in length. 2.
- For the purposes of heading 3917, with repect to tubes, pipes and hoses, the rate of duty "Free (C)" appearing in the "Special" subcolumn applies only to tubes, pipes and hoses having attached fittings. 3.
- For the purposes of heading 3921, the rate of duty "Free (B)" appearing in the "Special" subcolumn applies only to articles measuring not more than 38.1 cm in width and not more than 45.7 cm in length. 4.

Statistical Note

For the purposes of statistical reporting number 3907.60.0010 the term "bottle-grade resins" refers to uncompounded resins having an intrinsic viscosity of at least 0.68 but not more than 0.86 deciliters per gram, as determined by ASTM D2857-70. 1.

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Annotated for Statistical Reporting Purposes

| Heading/ Subheading 3901 3901.10.00 3901.20.00 3901.30.00 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20.10 3902.20.50 | 00 10 20 30 00 00 00 | Article Description I. FRIMARY FORMS Polymers of ethyleme, in primary forms: Polyethyleme having a specific gravity of less than 0.94 Linear low density polyethyleme Low density polyethyleme Low density polyethyleme Medium density polyethyleme Medium density polyethyleme Polyethyleme having a specific gravity of 0.94 or more | of Quantity kg kg kg kg kg kg | General 12.53 12.53 5.33 Free 2.20/kg + | Special Free (A, CA, E, IL, J, MX) Free (A, CA, E, IL, J, MX) Free (A, CA, E, IL, J, MX) Free (A, CA, E, IL, J, MX) | 43Z 43Z 43.5Z 20Z 2.2¢/kg 4 |
|---|--|---|--|--|---|---|
| 3901 3901.10.00 3901.20.00 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 00 10 20 30 00 00 00 | Polymers of ethylene, in primary forms: Folyethylene having a specific gravity of less than 0.94 Linear low density polyethylene Low density polyethylene, except linear low density polyethylene Medium density polyethylene Folyethylene having a specific gravity of 0.94 or more Ethylene-vinyl acetate copolymers Other: Elastomeric Other | kg kg kg kg kg kg | 12.53 5.33 Free 2.20/kg + | J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, | 43Z 43.5Z 20Z 2.2¢/kg - |
| 3901.10.00 3901.20.00 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 10 20 30 00 00 00 | Folyethylene having a specific gravity of less than 0.94 Linear low density polyethylene Low density polyethylene, except linear low density polyethylene Medium density polyethylene Polyethylene having a specific gravity of 0.94 or more | kg kg kg kg kg kg | 12.53 5.33 Free 2.20/kg + | J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, | 432 43.52 202 2.2¢/kg |
| 3901.10.00 3901.20.00 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 10 20 30 00 00 00 | <pre>less than 0.94 Linear low density polyethylene Low density polyethylene, except linear low density polyethylene Medium density polyethylene Polyethylene having a specific gravity of 0.94 or more Ethylene-vinyl acetate copolymers Other: Elastomeric Other</pre> | kg kg kg kg kg kg | 12.53 5.33 Free 2.20/kg + | J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, J,MMC) Free (A,CA,E,IL, | 432 43.52 202 2.2¢/kg |
| 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 20 30 00 00 00 | Low density polyethyleme, except linear low density polyethyleme | kg kg kg kg kg | 5.3Z Free 2.2¢/kg + | Free (A, CA, E, IL, J, MX) Free (A, CA, E, IL, J, MX) Free (A, CA, E, IL, | 43.5Z 20Z 2.2¢/kg |
| 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 30 00 00 00 | low density polyethyleme Medium density polyethyleme Polyethyleme having a specific gravity of 0.94 or more Ethyleme-vinyl acetate copolymers Other: Elastomeric Other | kg kg kg | 5.3Z Free 2.2¢/kg + | J.MMC) Free (A,CA,E,IL, J.MMC) Free (A,CA,E,IL, | 43.52 202 2.2¢/kg |
| 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 00 | Polyethylene having a specific gravity of 0.94 or more Ethylene-vinyl acetate copolymers Other: Elastomeric Other | kg kg | 5.3Z Free 2.2¢/kg + | J.MMC) Free (A,CA,E,IL, J.MMC) Free (A,CA,E,IL, | 43.5Z 20Z 2.2¢/kg |
| 3901.30.00 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 00 | 0.94 or more Ethylene-vinyl acetate copolymers Other: Elastomeric Other | kg | 5.3Z Free 2.2¢/kg + | J.MMC) Free (A,CA,E,IL, J.MMC) Free (A,CA,E,IL, | 43.52 202 2.2¢/kg |
| 3901.90 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20.10 | 00 00 | Other: Elastomeric Other | kg | Free 2.2¢/kg + | J,MX) Free (A,CA,E,IL, | 207 2.2¢/kg |
| 3901.90.10 3901.90.50 3902 3902.10.00 3902.20 3902.20.10 | 00 | Elastomeric Other | | 2.2¢/kg + | | 2.2¢/kg |
| 3901.90.50 3902 3902.10.00 3902.20 3902.20 | 00 | Other | | 2.2¢/kg + | | 2.2¢/kg |
| 3902 3902.10.00 3902.20 3902.20.10 | | and another families, shere also and and all all an | ****** | | | |
| 3902.10.00 3902.20 3902.20.10 | | | CHE Standard State | 7.72 | 5,1217 | 33.5% |
| 3902.20 3902.20.10 | | Polymers of propylene or of other olefins, in | is sui es, b | receil on the sta | severe userssi es | and the state |
| 3902.20.10 | 00 | primary forms: Folypropylene | kg | 12.52 | Free (A,CA,E, IL,J) | 33.5Z |
| 3902.20.10 | Langer Langer | being perfections content. This supramines what inc | nden stange | and a substance | 47 (MC) | |
| | | Polyisobutylene: Elestomeric | ks | Free | the succession of the same | 202 |
| | 00 00 | Elastomeric | kg | 2.2¢/kg + | Free (A,CA,E,IL, J.MX) | 2.2¢/kg 33.5Z |
| 3902.30.00 | 00 | Propylene copolymers | kg | 2.2¢/kg + | Free (A,CA,E,IL, J.MX) | 2.2¢/kg 33.5Z |
| 3902.90.00 | | Other | | 2.2¢/kg + | Free (A,CA,E,IL, J,MX) | 2.2¢/kg 33.5Z |
| 17. In 194 | 10 50 | Folybutylene | kg kg | an metani | the second states | |
| 3903 | 198 823 1.1.94 17 | Polymers of styrene, in primary forms: | - | to any decidents | in the second states | |
| 1303 | warmen. | Polystyrene: | | | Free (A.CA.E.IL. | 15.4c/ks |
| 3903.11.00 | 00 | Expandable | kg | 0.9¢/kg + 9.2% | J,MX) | 462 |
| 3903.19.00 | 00 | Other | kg | 0.9¢/kg + 9.2% | Free (A,CA,E,IL, J,MX) | 15.4¢/kg 46I |
| 3903.20.00 | 00 | Styrene-acrylonitrile (SAN) copolymers | kg | 1.1¢/kg + 9.1% | Free (A,CA,E,IL, J,MX) | 15.4¢/kg 45.5Z |
| 3903.30.00 | 00 | Acrylonitrile-butadiene-styrene (ABS) copolymers | kg | 0.7¢/kg + 9.4% | Free (A,CA,E,IL, J,MX) | 15.4¢/kg 472 |
| 3903.90 | | Other: | | | | |
| 3903.90.10 | 00 | Methyl methacrylate-butadiene-styrene (MBS) copolymers | kg | 7.62 | Free (A,CA,E,IL, J,MX) | 15.4¢/kg 67.5Z |
| 3903.90.50 | 00 | Other | kg | 0.9¢/kg + 9.2Z | Free (A,CA,E,IL, J,MX) | 15.4¢/ki 46Z |
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Annotated for Statistical Reporting Purposes

| | Stat | | Units | | Rates of Duty | T |
|-----------------------|----------------------|--|-------------------------------|---------------------------------------|---|----------------|
| | Stat. Suf- fix | Article Description | of Quantity | General | Special | 2 |
| 3924 | | Tableware, kitchenware, other household articles and toilet articles, of plastics: Tableware and kitchenware: | test meridial bar file 4 (| in of physical boots of the second | Tradattarina do | 60 6 10,60 |
| 3924.10 3924.10.10 | 00 | Tableware and Fitcheskard and ketchup dis- Salt, pepper, mustard and ketchup dis- pensers and similar dispensers | x | 3.42 | Free (A, E, IL, J,MX) 1.3Z (CA) | 80Z |
| 924.10.20 | 00 | Plates, cups, saucers, soup bowls, cereal bowls, sugar bowls, creamers, gravy boats, serving dishes and | | ine sorress bes boasies | Free (A.E.IL. | 84.52 |
| 1992 . Ang | | platters | kg | 71 | 2.82 (CA) | |
| 924.10.30 | 00 | Trays | No | 5.32 | Free (A,E,IL, J,MX) 2.13 (CA) | 402 |
| 3924.10.50 | 00 | Other | x | 3.42 | Free (A.E.IL, J,MX) 1.3Z (CA) | 802 |
| 3924.90 | | Other: | | | 1.32 (CA) | and the second |
| 3924.90.10 | el anti- | Curtains and drapes, including panels and valances; napkins, table covers, mats, scarves, runners, doilies, center- pieces, antimacassars and furniture | | | 100 | 56,65. |
| - | | slipcovers; and like furnishings | | 3.361 | Free (A,E,J,MX) 0.31 (IL) 1.31 (CA) | 252 |
| | 10 | Curtains and drapes | kg X | | Free (A.E.IL. | 802 |
| 3924.90.20 | | Picture frames | x | 3.42 | J,MX) 1.37 (CA) | |
| 3924.90.55 | 00 | Other | x | 3.42 | Free (A.E.IL. J.MX) 1.3Z (CA) | 802 |
| 3925 | 1.000 | Builders' ware of plastics, not elsewhere speci- fied or included: | (america inte | Contract Contract | Contraction of the second second | 1 |
| 3925.10.00 | 00 | Reservoirs, tanks, vats and similar contain- ers, of a capacity exceeding 300 liters | x | 6.32 | Free (A, E, IL, J,MX) 2.5Z (CA) | 562 |
| 3925.20.00 | 00 | Doors, windows and their frames and thresholds for doors | x | 5.32 | Free (A,E,IL, J,MX) | 802 |
| 3925.30 | | Shutters, blinds (including venetian blinds) | severa field | a constant | 2.12 (CA) | |
| 3925.30.10 | 00 00 | and similar articles and parts thereof: Blinds (including venetian blinds) | No | 3.362 | Free (A,E,J,MX) 0.3Z (IL) 1.3Z (CA) | 252 |
| 3925.30.5 | 0 00 | Other | x | 5.32 | Free (A,E,IL, J,MX) 2.1Z (CA) | 802 |
| 3925.90.0 | 0 00 | Other | x | 5.32 | Free (A, E, IL, J, MX) | 802 |
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Annotated for Statistical Reporting Purposes

| | Stat. Suf- | Article Description | Units | | Rates of Duty | i transferencia |
|--|---------------------------------|--|---------------------------|---------------------------------------|---|-----------------------|
| Subheading | fix | | Quantity | General | Special | - 2 |
| 3926 | | Other articles of plastics and articles of other | beia secoli da | a contention of | opecial | |
| 3926.10.00 | 00 | materials of headings 3901 to 3914: Office or school supplies | x | 5.32 . | Page 14 P | |
| 0320.10.00 | | | A | 5.32 | Free (A,E,IL, J.MX) | 80X |
| 926.20 | | Articles of apparel and clothing accessories | a heaving a the star | | 2.1% (CA) | |
| 3320.20 | | (including gloves): | | | | |
| 3926.20.10 | | Gloves: Seamless | and and | end anges out | 00 | 1.2.85.455 |
| 3920.20.10 | | Seantess | | 3.72 | Free (A,E,IL, J,MX) | 257 |
| a. Posti | 10 | A shares have a second of the state of the state of the | · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | 1.4% (CA) | 1. |
| | 10 | Surgical and medical | doz.prs. | | | - |
| 11.50.8011 | 20 | Disposable | doz.prs. | Warner and | | i that |
| | 50 | Other | doz.prs. | | | |
| | 20 1 | Specially designed for use in | Service . | Part and a second | in an | S. S. Salarah |
| 926.20.20 | 00 | sports: Baseball and softball | in the second second | | | |
| | | gloves and mitts | No | 67 | Free (A.E.IL. | 302 |
| | | ulymony of longulate of a blant clairin. Calence is | and the second | out has annet | J.MX | |
| 926.20.30 | 00 | Other | No | 32 | 2.41 (CA) Free (A,E,IL, | 302 |
| S.W.S. | | The state of the s | | 100100 193 | J.MC) | |
| 926.20.40 | | Other | | 142 | 1.21 (CA) Free (E,J) | 252 |
| S. 30,10 | | (ALL) as the construction of the second s | | | 1.41 (IL) | |
| 12.225.250 | | A second s | | and the second | 5.6% (CA) 11.2% (M%) | |
| 12.39.5511 | 10 | Disposable | doz.prs. | The second second | | 1. 1. 1. 1. 3. |
| 926.20.50 | 50 | Other | doz.prs. | 52 | Free (A.E.J.MK) | 252 - |
| | | | ••••• | | 0.5% (IL) | |
| | 10 | Aprons | doz. | | 27 (CA) | |
| | 50 | Other | doz. | | | |
| 926.30 | | Fittings for furniture, coachwork or the like: | | and service 20 and | Statistical and a second | 0.23 |
| 926.30.10 | 00 | Handles and knobs | kg | 6.57 | Free (A,B,E,IL, | 57.52 |
| | | and a second | | Con Charles and | J.MOC) | |
| 926.30.50 | 00 | Other | kg | 5.3Z | 2.61 (CA) 1/ Free (B,E,IL,J) | 802 |
| 13.30 20. | 20 | a support and and a support of the support | | | 2.1% (CA) 1/ | |
| 926.40.00 | 00 | Statuettes and other ornamental articles | x | 5.32 | 4.22 (MX) Free (A.E.IL. | 802 |
| | | Carling Construction of the second | | | J.MX) | |
| 26.90 | | Other: | a subscription | | 2.12 (CA) | |
| 26.90.10 | 00 | Buckets and pails | No | 3.42 | Free (A,E,IL, | 802 |
| | | 1201 SE MARK SHELSHELS (CA.) | | | J,MX) 1.37 (CA) | 1.4.4 |
| 26.90.15 | 00 | Nursing nipples and pacifiers | Gross | 3.12 | Free (A,CA,E,IL, | 252 |
| 26.90.20 | 00 | Ice bags; douche bags, enema bags, | • | | J,MX) | |
| 20.30.20 | ~ | colostomy bags, hot water bottles, and | a constants | | tonico - contac | 10.00 USD |
| | | fittings therefor; invalid and similar nursing cushions; crutch tips and | | | | |
| | | grips; dress shields; finger cots; | | | | |
| | | pessaries; prophylactics; sanitary belts; | | | | |
| | | bulbs for syringes; syringes (other than hypodermic syringes) and fittings | | | | |
| | | therefor, not in part of glass or | | | | |
| | | metal | x | 4.22 | Free (A,E,IL, J,MX) | 252 |
| | | | | 19 w. 4. | 1.6% (CA) | |
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1/ See subheadings 9905.00.00, 9905.39.13 and 9905.39.14.

Annotated for Statistical Reporting Purposes

CHAPTER 48

PAPER AND PAPERBOARD; ARTICLES OF PAPER FULP, OF PAPER OR OF PAPERBOARD

X 48-1

Notes

- 1. This chapter does not cover:
 - (a) Articles of chapter 30;
 - (b) Stamping foils of heading 3212;
 - (c) Perfumed papers or papers impregnated or coated with cosmetics (chapter 33);
 - (d) Paper or cellulose wadding impregnated, coated or covered with scap or detergent (heading 3401), or with polishes, creams or similar preparations (heading 3405);
 - (e) Sensitized paper or paperboard of headings 3701 to 3704;
 - (f) Paper-reinforced stratified sheeting of plastics, or one layer of paper or paperboard coated or covered with a layer of plastics, the latter constituting more than half the total thickness, or articles of such materials, other than wallcoverings of heading 4814 (chapter 39);
 - (g) Articles of heading 4202 (for example, travel goods);
 - (h) Articles of chapter 46 (manufactures of plaiting material);
 - (ij) Paper yarn or taxtile articles of paper yarn (section XI);
 - (k) Articles of chapter 64 or chapter 65;
 - Abrasive paper or paperboard (heading 5805) or paper- or paperboard-backed mica (heading 6814) (paper and paperboard coated with mica powder are, however, to be classified in this chapter);
 - (m) Metal foil backed with paper or paperboard (section XV);
 - (n) Articles of heading 9209; or
 - (o) Articles of chapter 95 (for example, toys, games, sports equipment) or chapter 96 (for example, buttons).
- 2. Subject to the provisions of note 6, headings 4801 to 4805 include paper and paperboard which have been subjected to calendering, super-calendering, glazing or similar finishing, false water-marking or surface sizing, and also paper, paperboard, cellulose wadding and webs of cellulose fibers, colored or marbled throughout the mass by any method. Except where heading 4803 otherwise requires, these headings do not apply to paper, paperboard, cellulose wadding or webs of cellulose fibers which have been otherwise processed, for example, by coating or impregnation.
- 3. In this chapter the expression "<u>newsprint</u>" means uncoated paper of a kind used for the printing of newspapers, of which not less than 65 percent by weight of the total fiber content consists of wood fibers obtained by a mechanical process, unsized or very lightly sized, having a smoothness on each side not exceeding 200 seconds Bekk, weighing not less than 40 g per square meter and not more than 57 g per square meter and having an ash content by weight not exceeding 8 percent.
- 4. In addition to hand-made paper and paperboard, heading 4802 covers only paper and paperboard made mainly from bleached pulp or from pulp obtained by a mechanical process and satisfying any of the following criteria:

For paper or paperboard weighing not more than 150 g/m²:

- (a) Containing 10 percent or more of fibers obtained by a mechanical process, and
 - 1. weighing not more than 80 g/m2, or
 - 2. colored throughout the mass; or
- (b) Containing more than 8 percent ash, and
 - 1. weighing not more than 80 g/m², or
 - 2. colored throughout the mass; or
- (c) Containing more than 3 percent ash and having a brightness of 60 percent or more*; or
- (d) Containing more than 3 percent but not more than 8 percent ash, having a brightness under 60 percent* and a burst index equal to or less than 2.5 kPa/g/m²; or
- (e) Containing 3 percent ash or less, having a brightness of 60 percent or more* and a burst index equal to or less than 2.5 kPa/g/m².

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For paper or paperboard weighing more than 150 g/m^2 :

- (a) Colored throughout the mass; or
- (b) Having a brightness of 60 percent or more*, and
 - 1. a caliper of 225 micrometers (microns) or less, or
 - a caliper of more than 225 micrometers but not more than 508 micrometers (microns) and an ash content of more than 3 percent; or
- (c) Having a brightness of less than 60 percent*, a caliper of 254 micrometers (microns) or less and an ash content of more than 8 percent.

"Brightness is to be measured by the Elrepho, GE or any equivalent internationally recognized brightness testing method.

Heading 4802 does not, however, cover filter paper or paperboard (including teabag paper) or felt paper or paperboard.

- 5. In this chapter "kraft paper and paperboard" means paper and paperboard of which not less than 80 percent by weight of the total fiber content consists of fibers obtained by the chemical sulfate or soda processes.
- 6. Faper, paperboard, cellulose wadding and webs of cellulose fibers answering to a description in two or more of the headings 4801 to 4811 are to be classified under that one of such headings which occurs last in numerical order in the tariff schedule.
- 7. Headings 4801, 4802, 4804 to 4808, 4810 and 4811 apply only to paper, paperboard, cellulose wadding and webs of cellulose fibers:
 - (a) In strips or rolls of a width exceeding 15 cm; or
 - (b) In rectangular (including square) sheets with one side exceeding 36 cm and the other side exceeding 15 cm in unfolded state.

Except that hand-made paper and paperboard in any size or shape as made directly and having all its edges deckled remains classified, subject to the provisions of note 6, in heading 4802.

- 8. For the purposes of heading 4814, the expression "wallpaper and similar wall coverings" applies only to:
 - (a) Paper in rolls, of a width of not less than 45 cm and not more than 160 cm, suitable for wall or ceiling decoration:
 - (i) Grained, embossed, surface-colored, design-printed or otherwise surface-decorated (e.g., with textile flock), whether or not coated or covered with transparent protective plastics;
 - (ii) With an uneven surface resulting from the incorporation of particles of wood, straw, etc.;
 - (iii) Coated or covered on the face side with plastics, the layer of plastics being grained, embossed, colored, design-printed or otherwise decorated; or
 - (iv) Covered on the face side with plaiting material, whether or not bound together in parallel strands or woven;
 - (b) Borders and friezes of paper, treated as above, whether or not in rolls, suitable for wall or ceiling decoration;
 - (c) Wall coverings of paper made up of several panels, in rolls or sheets, printed so as to make up a scene, design or motif when applied to a wall.

Products on a base of paper or paperboard, suitable for use both as floor coverings and as wall coverings are to be classified in heading 4815.

- 9. Heading 4820 does not cover loose sheets or cards, cut to size, whether or not printed, embossed or perforated.
- 10. Heading 4823 applies, inter alia, to perforated paper or paperboard cards for Jacquard or similar machines and paper lace.
- 11. Except for the articles of heading 4814 or 4821, paper, paperboard, cellulose wadding and articles thereof, printed with motifs, characters or pictorial representations, which are not merely incidental to the primary use of the goods, fall in chapter 49.

Subheading Notes

For the purposes of subheading 4804.11 and 4804.19, "<u>traftliner</u>" means machine-finished or machine-glazed paper and paperboard, of which not less than 80 percent by weight of the total fiber content consists of wood fibers obtained by the chemical sulfate or soda processes, in rolls, weighing more than 115 g/m² and having a minimum Mullen bursting strength, as indicated in the following table, or the linearly interpolated or extrapolated equivalent for any other weight:

| Weight | <u>Minimum Mullen bursting strength</u> |
|---------------------|---|
| (g/m ²) | (kPa) |
| 115 | 393 |
| 125 | 417 |
| 200 | 637 |
| 300 | 824 |
| 400 | 961 |

- For the purposes of subheadings 4804.21 and 4804.29, "<u>sack kraft paper</u>" means machine-finished paper, of which not less than 80 percent by weight of the total fiber content consists of fibers obtained by the chemical sulfate or soda processes, in rolls, weighing not less than 60 g/m² but not more than 115 g/m² and meeting one of the following sets of 2. specifications:
 - (a) Having a Millen burst index of not less than 38 and a stretch factor of more than 4.5 percent in the cross direction and of more than 2 percent in the machine direction.
 - (b) Having minima for tear and tensile as indicated in the following table, or the linearly interpolated equivalent for any other weight:

| : | Minimum te | ar | Minimum tensile | | |
|---------------------------------|----------------|--|------------------|------------------------|--|
| Weight | Machine : dire | Machine : ction plus : s direction : | Cross : direc | tion plus direction | |
| (grams per : square meter) : | (millinewt | ons) : | (kilonewtons per | meter) | |
| 60 : | 700 : | 1.510 : | 1.9 : | 6 | |
| 70 : | 830 : | 1,790 : | 2.3 : | 7. | |
| 80 : | 965 : | 2,070 : | 2.8 : | 8. | |
| 100 : | 1,230 : | 2,635 : | 3.7 : | 10. | |
| 115 : | 1,425 : | 3,060 : | 4.4 : | 12. | |

- For the purposes of subheading 4805.10, "<u>semichemical fluting paper</u>" means paper, in rolls, of which not less than 65 percent by weight of the total fiber content consists of unbleached hardwood fibers obtained by a semichemical pulping 3. process, and having a CMT 60 (Concora Medium Test with 60 minutes of conditioning) crush resistance exceeding 20 kgf at 50 percent relative humidity, at 23°C.
- For the purposes of subheading 4805.30, "<u>sulfite wrapping paper</u>" means machine-glazed paper, of which more than 40 percent by weight of the total fiber content consists of wood fibers obtained by the chemical sulfite process, having an ash content not exceeding 8 percent and having a Mullen burst index of not less than 15.
- For the purposes of subheading 4810.21, "<u>light-weight coated paper</u>" means paper, coated on both sides, of a total weight not exceeding 72 g/m², with a coating weight not exceeding 15 g/m² per side, on a base of which not less than 50 percent by weight of the total fiber content consists of wood fibers obtained by a mechanical process. 5.

Additional U.S. Notes

- For the purposes of this chapter the provisions for cellulose wadding and webs of cellulose fibers cover only products 1. obtained from the pulp of chapter 47.
- Samples used in determining the weight of paper or paperboard classifiable in this chapter according to weight shall be conditioned in an atmosphere at 50 percent (\pm 2 percent) relative humidity and at a temperature of 23°C (\pm 2°C). 2.

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Statistical Note

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| 1. | The term "standard | newsprint paper" covers printing papers of heading 4801 which conform to the following specifications: |
|----|--|--|
| | Weight: Size: | Not less than 46.3 g/m ² nor more than 57 g/m ² . Rolls not less than 33 cm wide and not less than 71 cm in diameter; sheets not less than 51 cm by 76 |
| | Thickness: Sizing: Ash Content: Color and Finish: | cm. Not more than 0.11 mm. Time of transudation of water shall be not more than 10 seconds by the ground glass method. Not more than 6.5 percent. White; or tinted shades of pink, peach or green in rolls; not more than 50 percent gloss when tested with the Ingersoll glarimeter. |

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| Heading/ | Stat. | Article Description | Units | and the second | 1 | of Duty | |
|------------|---------------|---|---------------------|-----------------------|----------------------------|----------------------|----------------|
| Subheading | Stat. Suf- | Article Description | Quantity | General | | Special | 2 |
| Subneauing | TIX | Newsprint, in rolls or sheets | | Free | and pressions | - Constant | Free |
| 4801.00.00 | 20 | Standard newsprint paper | t | to mand that | | sisses i | |
| 1000 | 40 | Other | t | Gassogung Th | 131 582 22 | r baland | |
| Canton 2 | | Uncoated paper and paperboard, of a kind used for | | a passit ena | 100 100 110 100 100 100 | Saraa A | |
| 4802 | | iting mainting or other graphic mirnoses and | | Linking to have | et paste as | abus ! | |
| | | writing, printed and punch tape paper, in rolls or punch card stock and punch tape paper, in rolls or sheets, other than paper of heading 4801 or 4803; | | stored by up a | s di gali | action [| |
| | 1 | the bade memor and nanerboard: | | Constants and | and the second | and the second | and the second |
| 802.10.00 | 00 | Handmade paper and paperboard | kg | 2.42 | Free | (A,CA,E,IL,J, MX) | 17.52 |
| | | Paper and paperboard of a kind used as a base | | | | PA) | the ac 20 |
| 4802.20.00 | 00 | for whoto-sensitive, heat-sensitive or | | CARLES CONTRACTOR | | 1 | |
| | | electro-sensitive paper or paperboard | m² | Free | att fast has | | 202 |
| | | Carbonizing base paper: | | transpecial design | | | |
| 4802.30 | 00 | Carbonizing base paper: Weighing not over 15 g/m ² | kg | 2.62 | Free | (A,CA,E,IL,J, | 382 |
| 4802.50.20 | | Weighing over 15 g/m ² | kg | 21 | Free | MX) (A,CA,E,IL,J, | 30.57 |
| 4802.30.40 | 00 | Weighing over 15 g/m | | | | MX) | P09.18.M |
| 4802.40.00 | 00 | Wallpaper base (hanging paper) | kg | Free | | | 102 |
| | | Other paper and paperboard, not containing fibers obtained by a mechanical process or | | her same di | tend model | | |
| | | and which not more than 10 percent by weight | | 1 2 March 1 The | and the second | | |
| | | of the total fiber content consists of such | | Careforder and | The second | | |
| | | fibers: Weighing less than 40 g/m ² : | | ge has a bidd | 1 | | 1977 - 1 K. M |
| 4802.51 | 00 | Writing paper | kg | 2.42 | Free | (A,CA,E,IL,J, | 287 |
| 4802.31.10 | | | kg | 1.82 | Pres | MX) (A,CA,E,IL,J, | 197 |
| 4802.51.40 | 00 | India and bible paper | Kg | 1.81 | FIGO | MX) | 104 |
| 4802.51.90 | 00 | Other | kg | Free | | | 11.52 |
| 4802.52 | | Other | | a her songests | | | 1.202 |
| | 00 | than 150 g/m ⁻ : Writing paper | k# | 2.42 | Free | (A.CA.E.IL.J | 281 |
| 4802.52.10 | 00 | W ALL AN ANALYSING WAS ADDRESS OF A DATA AND A | | | | MX) | |
| 4802.52.15 | 00 | Cover paper | kg | 2.41 | Free | (A,CA,E,IL,J | , 30X |
| 4802.52.20 | 00 | Drawing paper | kg | 1.61 | Free | (A,CA,E,IL,J | 15.52 |
| 4802.32.20 | | The second | | the second | | MX) (A.CA.E.IL.J | 107 |
| 4802.52.40 | 00 | India and bible paper | Kg | 1.82 | FIGO | (A,CA,E,IL,J MX) | 104 |
| 4802.52.90 | 00 | Other | kg | Free | . 1 | | 11.52 |
| 4802.53 | 1.1.1 | Other | kg | 2.42 | Pres | (A,CA,E,IL,J | 287 |
| 4802.53.10 | 00 | and the second | ALL STREET | 2.44 | ILLOO | MX) | 1200 |
| 4802.53.15 | 00 | Cover paper | kg | 2.42 | Free | (A,CA,E,IL,J | , 30Z |
| | | Drawing paper | ks | 1.62 | Free | MX) (A,CA,E,IL,J | 15 57 |
| 4802.53.20 | 00 | Drawing paper | ×8 | 1.04 | State Providence | MX) | |
| 4802.53.90 | | Other | | 1.61 | Free | (A,CA,E,IL,J | , 24.52 |
| | | Bristols | - | A State of the second | 1200 | (304 | 1 1 1 1 1 1 |
| | 40 80 | Other. | kg | | | | 1 |
| 4802.60 | 00 | Other paper and paperboard, of which more than | | A State State | | | |
| 1000.00 | | 10 percent by weight of the total fiber con- tent consists of fibers obtained by a mechani- | The second | 1 Contraction | | | |
| | | cal process: | | 1 States | | | |
| 4802.60.10 | 00 | Writing paper and cover paper | kg | 2.42 | Free | (A,CA,E,IL,J | , 282 |
| | 18.2 | Drawing paper | kg | 1 57 | Free | MK) (A,CA,E,IL,J | 15.5X |
| 4802.60.20 | 00 | Drawing paper | | | | MX) | |
| 4802.60.90 | 00 | Other | kg | Free | | | 11.52 |
| 4002.000 | | | | | | | A State |
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Annotated for Statistical Reporting Purposes

| Submeduring fix Outantity General Special 2 4803.00 Initial paper of a kind used for house- hold or smittary purposes, cellulose waiding and webs of cellulose fibers, whether or not crepted, surface-decorated or printed, in rolls or switch ereaseing 36 m or in rectangular (including got on in unfolded at at a cellulose wedding. 3.52 Free (A,CA,E,IL,J, MC) 247 4803.00.20 00 Other. kg 3.52 Free (A,CA,E,IL,J, MC) 247 4803.00.40 00 Other. kg 3.52 Free (A,CA,E,IL,J, MC) 247 4804.11.00 00 Other. kg 1.52 Free 207 4804.11.00 00 Other. kg Free 207 4804.23.00 00 Other. kg Free 207 4804.31.00 00 Other. kg Free 302 4804.31.10 00 Other. kg Free 302 6804.31.20 00 Other. kg Free 302 6804.31.20 00 Other. kg kg 22 6804.31.20 00 Other. kg kg 322 6804.31.20 00 Other. kg kg | Heading/ | Stat. Suf- | Article Description | Units | - | Rati | es of Duty | |
|---|------------------------|-----------------------|--|-----------------|---|------------|----------------------|-------------------------|
| 4803.00 Inits to a facial tissue stock, towel or neptin stock and similar paper of a kind used for house hold or sanitary paperse, callulose wadding and triking above and particulate in colling and stock and stock and the colling and stock and stock and the colling and stock and stock and the colling and stock and the colling and triking above and the colling above | Subheading | fix | Shines Shines Shines | | General | 1 | Special | 2 |
| 4403.00.20 00 Callulose wadding | 4803.00 | | stock and similar paper of a kind used for house- hold or sanitary purposes, cellulose wadding and webs of cellulose fibers, whether or not creped, crinkled, embossed, perforated, surface-colored, surface-decorated or printed, in rolls of a width exceeding 36 cm or in rectangular (including square) sheets with at least one side exceeding | | in selfingenoit | | | |
| 4603.00.40 00 Other | 4803.00.20 | 00 | Cellulose wadding | kg | 3.52 | Free | A.CAETLI | 247 |
| 4804 Uncoated kraft paper and paperboard, in rolls or sheraft iner: Free Free 207 4804.11.00 00 00 Sack kraft paper: kg Free 207 4804.21.00 00 Sack kraft paper: kg Free 207 4804.31.00 00 Sack kraft paper: kg Free 207 4804.31.00 00 Other: kg Free 207 4804.31.00 00 Other: kg 4.32 Free 4.02.51 804.31.00 00 Other: kg 4.32 Free 4.02.51 804.31.40 00 Other: kg 4.32 Free 160 804.31.40 00 Other: kg 4.32 Free 161 305 804.32.00 00 Other: | 4803.00.40 | 00 | Other. | hand a | Providence in | | M2() | Ca. 88. 208. |
| 4804.19.00 00 Other | 4804 | | Uncoated kraft paper and paperboard, in rolls or sheets, other than that of heading 4802 or 4803: Kraftliner: | A.G | ries ovijiest | | | <u>3</u> 6X |
| 100 00 <t< td=""><td>4804.11.00</td><td></td><td></td><td>kg</td><td>Free</td><td></td><td></td><td>207</td></t<> | 4804.11.00 | | | kg | Free | | | 207 |
| 4804.23.00 00 Unbleached. Free Free 302 604.31 Other traft paper and paperboard weighing 150 s/m² or less: Unbleached: 302 804.31.10 00 Other: Mesphing sver 15 s/m² but not over 30 s/m² kg kg Free A.3Z 804.31.20 00 Other: Mesphing paper kg kg Free (A,CA,E,IL,J, 253 804.31.40 20 Other: Bag or sack paper kg Free (A,CA,E,IL,J, 253 804.31.40 20 Other: Kg Free (A,CA,E,IL,J, 253 367 804.31.40 20 Other: Kg Free (A,CA,E,IL,J, 253 367 804.31.40 20 Other: Kg Kg Free (A,CA,E,IL,J, 253 367 804.33.40 00 Other: Kg Kg 4.32 Free (A,CA,E,IL,J, 302 302 804.39.20 00 Other: Kg Kg 4.32 Free (A,CA,E,IL,J, 302 302 304.39.40 20 Base or sack paper < | 4804.19.00 | 00 | | kg | | 10 10 M | | |
| 4604.31 00 Ubblesched: Condenser paper: Heighing over 13 g/m² but not over 30 g/m² kg 21 Free (A.CA, E, IL, J. MGA) 20.52 804.31.20 00 Other | 804.21.00 804.29.00 | | Unbleached Other Other kraft paper and paperboard weighing | | the second se | | | |
| 6804.31.10 00 Meighing over 15 g/m² but not over 30 g/m² | 804.31 | | Unbleached: | dimensing 01 | state weath that | a telle | | |
| 804.31.20 00 00 00 00 00 00 00 00 100 | 804.31.10 | 00 | | | | a set | 6 | |
| 804.31.40 20 Wrapping paper | 282 | . C | | kg | 22 | Free | (A,CA,E,IL,J, MX) | 20.52 |
| 804.31.40 20 Mrapping paper | 804.31.20 | 00 | Other | kg | 4.3Z | Free | (A.CA.E.IL.J. | 251 |
| 804.31.60 00 Other: Kg Kg <td>804.31.40</td> <td></td> <td>Bag or sack paper</td> <td></td> <td>Free</td> <td></td> <td>M9K)</td> <td>122 2 1 1 1 1 1 1 1 1 1</td> | 804.31.40 | | Bag or sack paper | | Free | | M9K) | 122 2 1 1 1 1 1 1 1 1 1 |
| 804.39 00 Other: Condenser paper | 804.31.60 | and the second second | Other | | A State of the second | Pass | | |
| 804.39.20 00 Condenser paper | 904 20 | | | ****** | ** | I.L.M. | | 302 |
| 804.39.40 20 Wrapping paper | 804.39.20 | 00 | Condenser paper | ke | 4.32 | Free | (A CA E TL J | 257 |
| 304.39.60 20 Base or sack paper | 804.39.40 | | and the second for the second for the second | | | | M2K) | |
| 304.39.50 Other 4X Free (A, CA, E, HL, J, MX) 30Z 20 Base stock for trays, dishes, plates, cups and the like kg kg MX) MX) 40 Other kg kg kg kg kg kg | | | Bas or sack paper | | Free | | 100 | 30 Z |
| 20 Base stock for trays, dishes, plates, cups and the like kg 40 Other kg | 804.39.60 | | Other | | 42 | Free | (A.CA.E.IL.J. | 30Z |
| 40 Other kg | 73. | 20 | Base stock for trays, dishes. | | | | | and the state |
| | 26 | 2.2 | plates, cups and the like | kg | | | te | |
| | | 40 | Other | kg | | | | |
| | | | CORP. Contraction of the Contrac | | | | | |
| | 1.52 | Sec. 1 | Like, a) and a second like and a second | a where we want | | | | |
| | | | St provenue | | | | and the second | |
| | | | | Sala Sala Sala | | La hereite | | |
| 20. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | | | there page 1 | 12.262 9037 | | | - | |
| | 2 | | | and have | | | | |
| | 22.25 | | 5.60.43 mars / 50.1 | | | | 4 | |
| | 2.4 | | | | | 120 | 1.22 | |
| | | | | | | | | |

X 48-6

Annotated for Statistical Reporting Purposes

| the direct | Stat. Suf- | Article Description | Units | | Rates of Duty | - |
|---|---------------|--|--|---|---|--|
| Heading/ Subheading | Suf- | Article Description | Quantity | General | Special | 2 |
| uoneauing | TIX | Uncoated kraft paper and paperboard, in rolls or | | | restante | |
| 4804 | | sheets, other than that of heading 4802 or | | eq yalandi ise. | and a second and a s | 105-02- |
| (con.) | 1 | 4803 (con.): Other kraft paper and paperboard weighing more | | | The second second | |
| | | than 150 g/m ² but less than 225 g/m ² : | | | | |
| 4804.41 | 1 | Unbleached: | | Free | Construction of the second | 302 |
| 4804.41.20 | 00 | Wrapping paper | kg | 42 | Free (A,CA,E,IL,J, | |
| 4804.41.40 | 00 | and the second second and the second s | ~ | Contraction (CO) | MOC | |
| 4804.42.00 | | Bleached uniformly throughout the mass | | Sim all this | the second second | Contraction of the second |
| 4004.42.00 | 1. | and of which more than 95 percent by weight of the total fiber content con- | | Constant and and and | 1 | |
| | 1 | sists of wood fibers obtained by a | | ten an ersda på | | 207 |
| | | chemical process Base stock for milk cartons and | | Free | and the second second | 302 |
| | 10 | other beverage containers | kg | Distance and the | | The second second |
| | | Other Deverage company | ne segerar h | and the second second | | 120.62. |
| | | Other: | ks | POLICIAL SECONDY | | |
| | 20 | Folding carton stock Base stock for trays, dishes, | | Traging solicites | a station of | 10.05. |
| | 30 | plates, cups and the like | kg . | | | |
| | 1. Kath | And the state of the second se | a sea a sea a sea agu | a contract prove made | a manual (and | 1 Contraction |
| | 40 | Other: Base stock for | | to and provident | in the Arabatta states | 30.00 |
| | | packaging | ks | encepting the set | (in a consisting | 63. |
| | | Other | ks | | | 1.00.00 |
| 4804.49.00 | 50 | Other | kg | 42 | Free (A,CA,E,IL,J | , 30Z |
| 4804.49.00 | 00 | and a second descent and a second | | Bogosi tonal | (32M | 100.00 |
| | | Other kraft paper and paperboard weighing 225 g/m ² or more: | | and a second start fragment | | |
| 4804.51.00 | 00 | Ibblesched. | kg | Free | | 302 |
| 4804.52.00 | 00 | Bleached uniformly throughout the mass | and the second second | and an and a state | La como de site | a mor an |
| | | and of which more than 95 percent by weight of the total fiber content con- | | This CL seres | | |
| | | sists of wood fibers obtained by a | C | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 302 |
| | 1. 1. 1. | chemical process Base stock for milk cartons and | | Free | the state of a | 302 |
| | 10 | Base stock for milk cartons and other beverage containers | ks | Care une | ARC CO | |
| Provide State | 1 | Striet Severage School Severage | | Collect. | 1 | |
| pers. I f | | Other: Folding carton stock | ks | the second second second second | Status - | |
| The | 20 | Base stock for trays, dishes, | | a | 10 0 | 792.20 |
| Land Start | 30 | plates, cups and the like | ks | | | |
| | | Other: | Contraction of the second | an and dame to be | | |
| | 40 | Base stock for | and mathematica | and hencedarable | 1 | |
| 10.20 | | packaging | ks | Inter that 90 p | | |
| 829.30.26 | 1 | Other | ke | A NEW ADDITION | a state in the state of the state | |
| 4804.59.00 | 50 | Other | kg | 42 | Free (A,CA,E,IL, | J, 30Z |
| 4004.33.00 | | Self-range papers | a thing to the state | is and paperines | MX) | |
| 925,20,20 | 12. | A. EL TIME TO A COLUMN TO A COLUMN TO A COLUMN | Marine Lange | a and a demonstration | the same rise the set of the set | 05.08 |
| in an and | | (2) calification in the second | and the second | 2 16.15 | | |
| 100.00 29 | | Dimer Provide Contraction | | · · · · · · · · · · · · · · · · · · · | The case of the se | 63,08 |
| 100 (20,227 | | | And the second s | FIGURE CONTRACT RESIDENT OF THE SECONDARY | | |
| | | interto- | The spectroses | the a stand second | | |
| 0.0010010401 | 100 | Ling Marrier and an an an an and a second and a second sec | a state of the second | Loss black 200 ja | The second second | |
| | | Provine and the second | | and the second | | 1 then |
| 150, 90, in] | | a decider and an and an an and and | - and second | a consideration | 1 | |
| an said the | 12 | Depression destat of latter and | Constant Same | - | they a standard ? | |
| | | the state of the second state and | all benalt | | tall box stations | |
| in sec. | 14 | | a state the ba | CALLER CONTRACTOR | The second se | 100001 |
| | | Band Street | | and a second stable | Al algorithm 1 Ch | |
| and the second se | | | | | | |
| • 309 | | manners berners Para | · ···································· | FERG | 04 Tises 5 | 20.04 |
| + 2510 | | | | bernin and a ber | a an analy and an | 1 00:00 |
| | | | | | | statement of the local division of the local |
| + 2010 | | ta 12 | | | cover Lanting | |
| + 2510 | | | | #20(#Q 3 | of callson and | |
| + 2010 | | | | | and Landres | |

48-

Annotated for Statistical Reporting Purposes

| Heading/ | Stat. Suf- Article Description | | Units | | | |
|--------------------------|--|--|---------------------------------|--|---|-------------|
| ubheading | fix | | Quantity | General | Special | 2 |
| 805 | | Other uncoated paper and paperboard, in rolls or | a de la companya de la companya | | | |
| 005 | | sheets: | al improved | they have reacted | Theoreman Server | |
| 805.10.00 | 00 | Semichemical fluting paper (corrugating | Source - gradies | tion and ends | The second second | 205 |
| | | medium) | kg | 42 | Free (A, CA, E, IL, J, MX) | 302 |
| | | a and the second s | and the second design | Cipical Andrea 20 | | |
| | | Multi-ply paper and paperboard: | the way there | The state of the | and the second | |
| 805.21.00 | | Each layer bleached | | Free | 100 | 302 |
| 003.21.00 | 20 | Folding carton board | kg | Columna and the | | |
| A609.00.3 | 40 | Other | kg | 1 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | Parameter and the second | |
| 805.22.00 | | With only one outer layer bleached | | Free | and all a second second | 302 |
| 4803.00 | 20 | Folding carton board | kg | PERSONAL STREET | | : |
| | 40 | Other Having three or more layers of which only | kg | a set west to be | | |
| 805.23.00 | | the two outer layers are bleached | | Free | | 302 |
| | 20 | Folding carton board | kg | | The second second | |
| 3404.33.03 | 40 | Other | kg | same in sector | | |
| 805.29.00 | | Other | | Free | | 30 Z |
| | 20 | Folding carton board | kg | Chargest | | |
| Article Real Verder (191 | 40 | Other | kg | | Free (A,CA,E,IL,J, | 207 |
| 805.30.00 | 00 | Sulfite wrapping paper | kg | 2.42 | MC) | 304 |
| | | Filter paper and paperboard | kg | 4.21 | Free (A, CA, E, IL, J, | 11c/k. |
| 805.40.00 | 00 | Filter paper and paperboard | -0 | | M2K) | 152 |
| 805.50.00 | 00 | Felt paper and paperboard | kg | Free | | 102 |
| 805.60 | 00 | Other paper and paperboard, weighing 150 | Contra and Longs | Sector - | | |
| | | a/m² on long. | | | | 0.5- |
| 805.60.20 | 00 | Condenser paper | kg | 4.32 | Free (A,CA,E,IL,J, MX) | 252 |
| 1000 | S. Same | Bibulous paper | | Free | (AC) | 302 |
| 805.60.30 | 00 | Bibulous paper | kg | Free | and the set of the set of the set | 302 |
| 805.60.40 | 00 | Wrapping paper Other: | A | TTA | | |
| 805.60.50 | 00 | Weighing not over 15 g/m ² | k# | 1.52 | Free (A,CA,E,IL,J, | 30Z |
| 803.80.30 | 00 | | The second second of the | Carrier Carrier | MIC | Constant of |
| 805.60.70 | 00 | Weighing over 15 g/m ² but not | and the marks | anter making in | | |
| | | over 30 g/m ² | kg | Free | | 11¢/kg |
| 1994.59 | | there are | Section and the sec | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Free (A,CA,E,IL,J, | 152 |
| 805.60.90 | | Weighing over 30 g/m ² | | 42 | MX) | 50. |
| and the set | | Corrugating medium | ke | - Marian and | | |
| | 20 | Other. | ka | Constant Constan | | |
| 805.70 | 40 | Other paper and paperboard, weighing more than | | | | |
| 003.70 | | 150 g/m ² but less than 225 g/m ² : | and an an arrive | and the second s | | |
| 805.70.20 | 00 | Pressboard | kg | 4.9Z | Free (A, CA, E, IL, J, | 302 |
| | 200 | Dans angot for bridge, to stand a | the latest sectors | - ALLER THE | MSK) | 302 |
| 805.70.40 | | Other | | Free | | 304 |
| | 20 | Construction paper | kg | 100000 | | |
| | 40 | Linerboard containing by weight less than 80 percent chemical | and the second of | | | |
| | | sulfate wood pulp | ka | | | |
| | | surrace wood barb | ~0 | and the second | and the second | |
| | 60 | Other | kg | | 100 | Law en |
| 805.80 | 00 | Other paper and paperboard, weighing 225 g/m ² | | | | |
| | | or more: | | | | 207 |
| 805.80.20 | 00 | Pressboard | kg | 4.92 | Free (A, CA, E, IL, J, | 302 |
| | | | | Pres | MX) | 302 |
| 805.80.40 | | Other | | Free | | |
| | 20 | Wet machine board | kg kg | | | |
| | 40 | Construction paper Linerboard containing by weight | ~ | | | |
| | 60 | Linerboard containing by weight less than 80 percent chemical | | | | |
| | | sulfate wood pulp | kg | | | |
| | | | | | | |
| | 90 | Other | kg | | | |
| | | | | | | |
| 806 | | Vegetable parchment, greaseproof papers, tracing | | •••• | | |
| | | namers and slassing and other glazed transparent | | | | |
| | | or translucent papers, in rolls or sheets: Vegetable parchment | kg | Free | | 197 |
| 806.10.00 | 00 | Greaseproof papers | kg | Free | | 7¢/kg * |
| 806.20.00 | 00 | | | | | 152 |
| 805.30.00 | 00 | Tracing papers | kg | Free | | 7¢/kg - |
| 000.30.00 | 00 | | | | | 157 |
| 805.40.00 | 00 | Glassine and other glazed transparent or | | - | | 7¢/kg |
| | and the second | translucent papers | I KR | Free | | |
| 000.40.00 | | transfucent papers | | | and the second se | 157 |

X 48-8

Annotated for Statistical Reporting Purposes

X 48-9

| | Stat. | Article Description | of | and a second second | | |
|-----------------------|-------|---|--|--|--|-----------------|
| Heading/ | Suf- | | Quantity | General | Special | 2 |
| 807 | | Composite paper and paperboard (made by sticking flat layers of paper or paperboard together with an adhesive), not surface-coated or impregnated, whether or not internally reinforced, in rolls or | | dered, concept attas stary) ev or rections a constitut or at | Topse and an and a second and a | |
| 807.10.00 | 00 | sheets: Paper and paperboard, laminated internally with bitumen, tar or asphalt | kg | Free | tervedo - | 30 Z |
| 807.91.00 | 00 | Other: Straw paper and paperboard, whether or not covered with paper other than straw | 150 602942 1 20062524 10 12 606 20 6 | and the second s | | 207 |
| | | paper | kg | 2.82 | Free (A,CA,E,IL,J, MX) | 302 |
| 807.99 | 00 | Other: Cloth-lined or reinforced paper | her the | 2.42 | Free (A,CA,E,IL,J, MX) | |
| 807.99.40 | 00 | Other | kg | Free | 12 | 302 |
| 808 | a uye | Paper and paperboard, corrugated (with or without glued flat surface sheets), creped, crinkled, em- bossed or perforated, in rolls or sheets, other than that of heading 4803 or 4818: | | | | 67:11 (05:5) |
| 808.10.00 | 00 | Corrugated paper and paperboard, whether or not perforated | kg | 42 | Free (A,CA,E,IL,J, MX) | 30 Z |
| 808.20.00 | 00 | Sack kraft paper, creped or crinkled, whether or not embossed or perforated | kg | Free | S coloriero 2 la suface descrivero | 367 |
| 808.30.00 | 00 | Other kraft paper, creped or crinkled, whether or not embossed or perforated | kg | Free | | 36 Z |
| 808.90 808.90.20 | 00 | | kg | 3.42 | Free (A,CA,E,IL,J MX) | |
| 808.90.40 | 00 | Embossed | kg | 22 | Free (A,CA,E,IL,J MX) | and the second |
| 4808.90.60 | 00 | Other | kg | 5.3% | Free (A,CA,E,IL,J MX) | , 35X |
| 4809 | | Carbon paper, self-copy paper and other coated or impregnated copying or transfer papers (including coated or impregnated paper for duplicator stancils or offset plates) whether or not printed, in rolls of a width exceeding 36 cm or in rectangular (including square) sheets with at least one side exceeding 36 cm in unfolded state: | | interesting land total 30 million and 30 million an | | |
| 4809.10 4809.10.20 | 00 | Carbon or similar copying papers: Weighing not over 15 g/m ² | kg | 2.81 | Free (A,CA,E,IL,J | , 38 z |
| 4809.10.40 | 00 | Weighing over 15 g/m ² | kg | Free | and the second | 30.5X |
| 4809.20 4809.20.20 | 00 | Self-copy paper: Writing paper | kg | 4.42 | Free (A,CA,E,IL,J | , 352 |
| 4809.20.40 | 00 | Other | kg | Free | | 251 |
| 4809.90 4809.90.20 | 00 | Other: Stereotype-matrix board and mat | kg | 5.8% | Free (A,CA,E,IL,J MX) | . 352 |
| 4809.90.40 | 00 | Decalcomania paper: Simplex | kg | 2.82 | Free (A,CA,E,IL,J MX) | |
| 4809.90.60 | 00 | Duplex | kg | Free | | Free |
| 4809.90.70 | 00 | Impregnated, coated or both, but not otherwise treated | kg | Free | Restored The | 252 |
| 4809.90.80 | 00 | Other | kg | 1.92 | Free (A,CA,E,IL, | J. 20Z |

X 48-10

Annotated for Statistical Reporting Purposes

| Heading/ | Stat. | Article Description | Units | Rates of Duty | | | |
|--|--------------------|---|------------------------------|--|--|--|--|
| Heading/ Subheading | Suf- fix | Article Description | Quantity | General | Special | 2 | |
| 4810 | | Paper and paperboard, coated on one or both sides | nd element li | andreased yes a | (1 Costantian and | | |
| 1010 | 1.3 | with kaolin (China clay) or other inorganic sub- | Pagas Exace | and the second | and an and a second of | | |
| PRS, 19, 22 | | stances, with or without a binder, and with no | | the set is seen the | | 125.000 | |
| | | other coating, whether or not surface-colored, | | | I Charge 1 1 | | |
| | | surface-decorated or printed, in rolls or | ant besterte | 1 Jocandiniper | for the Bagan and | 100.05 | |
| | | sheets: Paper and paperboard of a kind used for | Sec. Alexie | 44 20 385 . SH | de las despa | | |
| 865.25.001 | | writing printing or other graphic | A State State of | | | | |
| | Par 2 | nurposes, not containing fibers obtained by | Carlos and | | THE SEA | Same 20 | |
| | | a machanical process or of which not more | | | | a ser a s | |
| | | than 10 percent by weight of the total | and the second second second | | | | |
| | - Barris | fiber content consists of such fibers: Weighing not more than 150 g/m ² : | | | | | |
| 4810.11 | | Basic paper to be sensitized for | | | | | |
| 4810.11.20 | | use in photography | | 0.92 | Free (A,CA,E,IL,J, | 52 | |
| yn fe | - leve la | The second state and the second | Carlo Starts | o beski-issi? | (201 | | |
| | 20 | Baryta coated | m² | Lange Contraction | | | |
| 102.23.025 | 40 | Other | a ² | C. C. C. C. C. Second | The CARE T | 219 | |
| 4810.11.30 | 00 | India or bible paper | kg | 1.72 | Free (A,CA,E,IL,J, MX) | 644 | |
| | be it | Other | kg | 2.52 | Free (A, CA. E, IL, J, | 372 | |
| 4810.11.90 | 00 | Other | | | MK) | | |
| 4810.12.00 | 00 | Weighing more than 150 g/m ² | kg | 2.61 | Free (A, CA, E, IL, J, | 422 | |
| | 00 | | | the inter stranging i | MSK) | 1 Martin | |
| 105.55.000 | S. Barris | Paper and paperboard of a kind used for | Contraction of | 2224 | 201 200 20 J | | |
| 14 3 . HA | | writing, printing or other graphic pur- | | | 1 | | |
| and the second | | moses, of which more than 10 percent by | - Charles - | | and the second states of the second | | |
| and a lot a lot a | | weight of the total fiber content con- sists of fibers obtained by a mechanical | The second | and the base are | San | | |
| have and well | the st | SISTS OF TIDETS OFTEINED By a mechanical process: | aller | 1 | | | |
| 810.21.00 | 00 | Light-weight coated paper | ks | 2.52 | Free (A,CA,E,IL,J, | 372 | |
| 010.21.00 | 00 | menne weegne concer bebeen | teaching to | the spectra the | M9C) | 2 | |
| 4810.29.00 | 00 | Other | kg | 2.52 | Free (A, CA, E, IL, J, MK) | 3/1 | |
| and the sea | | | | Sand Constant and a | (AC) | 1 Contract | |
| | Contraction of the | Kraft paper and paperboard, other than that | | | | 1 | |
| 100 M | 1 2 3 | of a kind used for writing, printing or other graphic purposes: | | Land and the state | | | |
| 810.31.00 | | Bleached uniformly throughout the mass | and a street of | | | | |
| 810.31.00 | 1.2.3 | and of which more than 95 percent by | | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 1282.483 | |
| | 10.3 | weight of the total fiber content con- | | | | | |
| | 1985-1 | sists of wood fibers obtained by a | | | and the second s | | |
| 129-19 | | chemical process and weighing | Surger of the second | Carlos Contrato Contrato | | 251 | |
| have been been | | 150 g/m ² or less | | Free | | | |
| C. C | 20 | Folding carton board Base stock for trays, dishes, | kg | the statistic to | as at said to be | | |
| 124 99 95 | 40 | plates, cups and the like | ks | - The St Later | and a statement of 25. P | | |
| | 100.00 | praces, cups and one materies | 1000 a 25 4 | the philodele Cars | and a series doubt the | | |
| | 60 | Other | kg | The protocology of the | dis GT sectorements | | |
| 810.32.00 | | Bleached uniformly throughout the mass | - Antipation of | Constant and annual | and the second | | |
| | - 1 | and of which more than 95 percent by | | Area ous sou | | | |
| | | weight of the total fiber content con- | | a second | | 1.00 | |
| Jac an The | | sists of wood fibers obtained by a | a second second | A STATE OF THE STA | | | |
| and the second | | chemical process and weighing more | | Free | 1. St. | 25% | |
| Anna an an an | | than 150 g/m ² Folding carton board | kg | | | | |
| | 20 | Base stock for trays, dishes, | | | 19 20 100 100 | 1.000.000 | |
| 104.00. h0 1 | 40 | plates, cups and the like | kg | | | | |
| | | | The second second | | · · · · | A Marsha | |
| | 60 | Other | kg | | | | |
| 4810.39 | | Other: | | A State of the second | | 1 | |
| 4810.39.20 | 00 | Whether or not impregnated, but | kg | Free | | 25% | |
| | | not otherwise treated | ****** | 1 | 1 | 1 Constant | |
| | | Other | kg | 1.92 | Free (A,CA,E,IL,J | , 201 | |
| 4810.39.40 | 00 | | | 4 | MIK) | The second | |
| 25 22 | | Other paper and paperboard: | Sector | · | | | |
| 4810.91 | | Mailti-nlw. | 1. | | | 302 | |
| 4810.91.20 | 00 | Weighing more than 150 g/m ² | kg | Free | Free (A,CA,E,IL,J | | |
| 4810.91.40 | 00 | Other | kg | 1.92 | MX) | 1 | |
| and a second second | | | kg | 1.92 | Free (A,CA,E,IL,J | , 201 | |
| 4810.99.00 | 00 | Other | -0 | | MX) | | |
| E CAR | | | | | | | |
| New Anna | | the production of the second second second second | | and the second second | | | |
| and the second second second second | | | A STATE OF THE STATE OF | and the second s | | | |
| | | | | | The second se | State of the state | |
| | | | | | | | |

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Annotated for Statistical Reporting Purposes

X 48-11

| in direct | Stat. | Article Description | Units | | Rates of Duty | 2 |
|--------------|----------------------------|---|--|---|---|--------------------|
| Heading/ | Suf- | Article Description | Quantity | General | Special | 2 |
| Ubileading | TIX | Paper, paperboard, cellulose wadding and webs of | Sector and the sector of the | and the second se | and the second se | |
| 811 | | | | Trease But | in hamman and have | |
| | | surface-colored, surface-decorated or printed, in rolls or sheets, other than goods of heading | | ······································ | "daran" ot | |
| PANEL S | | 1000 1000 1010 of A818' | | Andrew Street Street | - martine to an | |
| 811.10.00 | 00 | Tarred bituminized or asphalted paper | | Free | a suisela | 102 |
| 811.10.00 | | and paperboard | kg | 5180 | selfa nonit | 10. |
| S | | Gummed or adhesive paper and paperboard: | | and the part of the second | (passiles | |
| | 00 | Pressure-sensitive | kg | 5.82 | Free (A,CA,E,IL,J, MK) | 402 |
| 811.21.00 | | and the second se | kg | Free | magaq12am § 00 | 142 |
| 811.29.00 | 00 | Other Paper and paperboard, coated, impregnated or | | Conce codes | 1 | |
| California (| | and with plastics (excluding adhesives): | | country and total to | and the Edward | |
| 811.31 | | Bleached, weighing more than 150 g/m ² : 0.3 mm or more in thickness | | Free | | 30Z |
| \$811.31.20 | 10 | Base stock for milk cartons | | Contractor and the second | and the second second | 100.00 |
| xae + | 10 | and other beverage | - | | | |
| | | containers | kg | o estad à des s | carbonnes soni? 1 60 | 60.00. |
| | 1. Control | Other: | | or and the line | i boend, shorting | 1 |
| | 20 | Folding carton stock | ks | | | 1 |
| | 30 | Base stock for trays, dishes, plates, cups and | | Property manager | Carbons yoursel | |
| | | the like | ks | if office was | an intractory and | |
| | | | | a correspondence | a subscience production of the | |
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| 4812.00.00 | 00 | Filter blocks, slabs and plates, of paper pulp | | 0.7- | M2C) | |
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| 4813 | | Cigarette paper, whether or not cut to size or in | | | | |
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X 48-12 Annotated for Statistical Reporting Purposes

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| Subheading | fix | Article Description | Quantity | General | Special | 2 |
| 4814 | | Wallpaper and similar wallcoverings; window | | Li heance , pass | Caller Caller | au. |
| 4814 10.00 | 00 | transparencies of paper: "Ingrain" paper | kg | Free | to an affin and | 3.3¢/kg |
| | 00 | Wallpaper and similar wallcoverings, con- | | 19284 no 021 | and some same | + 201 |
| 4814.20.00 | 00 | sisting of paper coated or covered, on the | a personages | La sua concensi p | | |
| | | face side, with a grained, embossed, colored, design-printed or otherwise | Anna Anna A | | | |
| 20 | i.t.at | decorated layer of plastics | kg | Free | 1. 172 | 3.3¢/kg + 20% |
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| 612.11.29 | | bound together in parallel strands or woven | kg | Free | Alleron to the state of | 3.3¢/kg + 20Z |
| 4814.90.00 | 00 | Other | kg | Free | | 3.3¢/kg + 20Z |
| | 1 3.5 | Charter Lawrence Lawrence | - garrowed y | ellip bros | | + 204 |
| 4815.00.00 | 00 | Floor coverings on a base of paper or of paper- board, whether or not cut to size | kg | 3.75 | Free (A,CA,E,IL,J | 402 |
| 218-11,70 | | board, whether or not cut to size | -0 | | MSK) | |
| 4816 | 00 | Carbon paper, self-copy paper and other copying | and dented a | and the second second | tree to be shape | |
| | | or transfer papers (other than those of | | | | |
| | | plates, of paper, whether or not put up in | : 13 | 10 | | |
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| 4817 | | Envelopes, letter cards, plain postcards and | ALLEFALLES | Contraction of the second | | 85,85,13 |
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Annotated for Statistical Reporting Purposes

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1 1/ See heading 9902.39.27. 2/ See heading 9902.48.23

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Annotated for Statistical Reporting Purposes

CHAPTER 49

PRINTED BOOKS, NEWSPAPERS, PICTURES AND OTHER PRODUCTS OF THE PRINTING INDUSTRY; MANUSCRIPTS, TYPESCRIPTS AND PLANS

X 49-1

Notes

This chapter does not cover: 1

- (a) Photographic negatives or positives on transparent bases (chapter 37);
- (b) Maps, plans or globes, in relief, whether or not printed (heading 9023);
- (c) Playing cards or other goods of chapter 95; or
- (d) Original engravings, prints or lithographs (heading 9702), postage or revenue stamps, stamp-postmarks, first-day covers, postal stationery or the like of heading 9704, antiques of an age exceeding one hundred years or other covers, postal stationery of the like of heading 9704, antiques of an age exceeding one hundred years or other covers. articles of chapter 97.
- For the purposes of chapter 49 the term "printed" also means reproduced by means of a duplicating machine, produced under the control of a computer, embossed, photographed, photocopied, thermocopied or typewritten. 2.
- Newspapers, journals and periodicals which are bound otherwise than in paper, and sets of newspapers, journals or periodicals comprising more than one issue under a single cover are to be classified in heading 4901, whether or not 3 containing advertising material.
- Heading 4901 also covers: 4
 - (a) A collection of printed reproductions of, for example, works of art or drawings, with a relative text, put up with numbered pages in a form suitable for binding into one or more volumes;
 - (b) A pictorial supplement accompanying and subsidiary to, a bound volume; and
 - (c) Printed parts of books or booklets, in the form of assembled or separate sheets or signatures, constituting the whole or a part of a complete work and designed for binding.

However, printed pictures or illustrations not bearing a text, whether in the form of signatures or separate sheets, fall in heading 4911.

- Subject to note 3 of this chapter, heading 4901 does not cover publications which are essentially devoted to advertising (for example, brochures, pamphlets, leaflets, trade catalogs, yearbooks published by trade associations and tourist promotional literature). Such publications are to be classified in heading 4911. 5.
- For the purposes of heading 4903, the expression "children's picture books" means books for children in which the pictures form the principal interest and the text is subsidiary. 6.

Additional U.S. Notes

- For the purposes of determining the classification of printed matter produced in whole or in part by a lithographic process, the thickness of such printed matter is that of the thirmest paper contained therein, except that the thickness of a permanently mounted lithograph is the combined thickness of the lithograph and its mounting. 1.
- Currency in current circulation in any country imported for mometary purposes and securities and similar evidences of value provided for in heading 4907 shall be admitted without formal customs consumption entry or the payment of duty. This does not affect any requirement under other provisions of law to the effect that transfers of mometary instruments into or through the United States, in an amount exceeding \$10,000 on any one occasion, shall be reported as prescribed 2. therein.

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Annotated for Statistical Reporting Purposes

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SECTION XVI

MACHINERY AND MECHANICAL APPLIANCES; ELECTRICAL EQUIPMENT; PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES

XVI-1

Notes

1. This section does not cover:

- (a) Transmission, conveyor or elevator belts or belting, of plastics of chapter 39, or of vulcanized rubber, (heading 4010); or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016);
- (b) Articles of leather or of composition leather (heading 4204) or of furskin (heading 4303), of a kind used in machinery or mechanical appliances or for other technical uses;
- (c) Bobbins, spools, cops, cones, cores, reels or similar supports, of any material (for example, chapter 39, 40, 44 or 48 or section XV);
- (d) Perforated cards for Jacquard or similar machines (for example, chapter 39 or 48 or section XV);
- (e) Transmission or conveyor belts of textile material (heading 5910) or other articles of textile material for technical uses (heading 5911);
- (f) Precious or semiprecious stones (natural, synthetic or reconstructed) of headings 7102 to 7104, or articles wholly of such stones of heading 7116, except unmounted worked sapphires and diamonds for styli (heading 8522);
- (g) Parts of general use, as defined in note 2 to section XV, of base metal (section XV), or similar goods of plastics (chapter 39);
- (h) Drill pipe (heading 7304);
- (ij) Endless belts of metal wire or strip (section XV);
- (k) Articles of chapter 82 or 83;
- (1) Articles of section XVII;
- (m) Articles of chapter 90;
- (n) Clocks, watches or other articles of chapter 91;
- (c) Interchangeable tools of heading 8207 or brushes of a kind used as parts of machines of heading 9603; similar interchangeable tools are to be classified according to the constituent material of their working part (for example, in chapter 40, 42, 43, 45 or 59 or heading 6804 or 6909); or
- (p) Articles of chapter 95.
- Subject to note 1 to this section, note 1 to chapter 84 and to note 1 to chapter 85, parts of machines (not being parts of the articles of heading 8484, 8544, 8545, 8546 or 8547) are to be classified according to the following rules:
 - (a) Parts which are goods included in any of the headings of chapters 84 and 85 (other than headings 8485 and 8548) are in all cases to be classified in their respective headings;
 - (b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 8479 or 8543) are to be classified with the machines of that kind. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517;
 - (c) All other parts are to be classified in heading 8485 or 8548.
- 3. Unless the context otherwise requires, composite machines consisting of two or more machines fitted together to form a whole and other machines adapted for the purpose of performing two or more complementary or alternative functions are to be classified as if consisting only of that component or as being that machine which performs the principal function.
- 4. Where a machine (including a combination of machines) consists of individual components (whether separate or interconnected by piping, by transmission devices, by electric cables or by other devices) intended to contribute together to a clearly defined function covered by one of the headings in chapter 84 or chapter 85, then the whole falls to be classified in the heading appropriate to that function.
- For the purposes of these notes, the expression "machine" means any machine, machinery, plant, equipment, apparatus or appliance cited in the headings of chapter 84 or 85.

XVT-2

Additional U.S. Note

For the purposes of this section, the term "printed circuit assembly" means goods consisting of one or more printed circuits of heading 8534 with one or more active elements assembled thereon, with or without passive elements. For the purposes of this note, "<u>active elements</u>" means diodes, transistors and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and microassemblies of heading 8542.

Statistical Note

- Provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing of semiconductor materials, such as silicon and gallium arsenide, the processing of such materials into semiconductor devices and the testing of such devices (in general the testing equipment, as well as some of the processing equipment, is classified in chapter 90). More specifically the goods include the following: 1
 - (a) Wafer manufacturing equipment:
 - (i) Crystal growers & pullers. used to produce extremely pure monocrystalline semiconductor boules from which wafers can be sliced. Most common methods employed in these crystal growers and pullers are the Czochralski and float zone methods.
 - (ii) Wafer preparation equipment:
 - (A) Crystal grinders used to grind the crystal boule to precise diameter required for wafers and to grind the flats on the boule to indicate the conductivity type and resistivity of the crystal.
 - (B) Wafer slicing saws used to slice wafers from a boule of monocrystalline semiconductor material.
 - (C) Wafer grinders, lappers and polishers used to prepare the semiconductor wafer for the fabrication process. This involves bringing the wafer within dimensional tolerances. Especially critical is the flatness of its surface.
 - (b) Mask fabrication and repair equipment -
 - (i) Fabrication equipment used to transfer design patterns to a mask or reticle, this equipment generally utilizes optical, electron beam or X-rays to write circuit patterns on photoresist coated substrates. After development, these substrates become the mask or reticle for wafer fabrication.
 - Repair equipment this equipment generally utilizes focused ion beams or laser beams. They are used directly on the mask or reticle to remove chrome.
 - (c) Wafer fabrication equipment:
 - (i) Film formation equipment used to apply or produce various films on the surface of the wafer during the fabrication process. These films serve as conductors, insulators and saniconductors on the finished device. They may include oxides and nitrides of the substrate surface, metals, and epitaxial layers. The processes and equipments listed below are not necessarily limited to the generation of a particular type of film.
 - (A) Oxidation furnaces used to form a "film" of oxide on the wafer. The oxide is formed by the chemical reaction of the top molecular layers of the wafer with the applied oxygen or steam under heat.
 - (B) Chemical Vapor Deposition (CVD) equipment used to deposit various types of films which are obtained by combining the appropriate gases in a reactant chamber at elevated temperatures. This constitutes a thermochemical vapor-phase reaction. Operations may take place at atmospheric or low pressure (LPCVD) and may use plasma enhancement (PECVD).
 - (C) Physical Vapor Deposition (PVD) equipment used to deposit various types of films which are obtained by vaporizing a solid.
 - (1) Evaporation equipment in which the film is generated by heating the source material.
 - (2) Sputtering equipment in which the film is generated by bombarding the source material (target) with ions.
 - (D) Molecular Beam Epitaxy (MBE) equipment used to grow epitaxial layers on a heated monocrystalline substrate in an ultrahigh vacuum using beams of molecules. The process is similar to PVD.
 - (ii) Doping equipment which is used to introduce dopants into the wafer surface in order to modify the conductivity or other characteristics of a semiconductor layer:
 - (A) Thermal diffusion equipment in which the dopants introduced into the surface of the wafer by the application of gases under high temperatures.
 - (B) Ion Implantation in which the dopants are "driven" into the crystal lattice structure of the surface of the wafer in the form a beam of accelerated ions.
 - (C) Annealing furnaces which are used to repair the crystal lattice structures of the wafer damaged by ion implantation.

(iii) Etching and stripping equipment - used for etching or cleaning surfaces of the wafers.

- (A) Wet etching equipment in which chemical etching materials are applied by spraying or immersion. Spray etchers provide more uniform results than bath etchers, since they perform the operation on one wafer at a time.
- (B) Dry plasma etching in which etching materials are presented as gases within a plasma energy field, providing an anisotropic etch profile.
- (C) Ion beam milling equipment in which ionized gas atoms are accelerated toward the wafer surface. The impact results in the top layer being physically removed from the surface.
- (D) Strippers or ashers using techniques similar to etching this apparatus removes the spent photoresist from the surface of the wafer after it has served its purpose as a "stencil". This equipment is also used for removal of nitrides, oxides, and polysilicon, with an isotropic etch profile.
- (iv) Lithography equipment used to transfer the circuit designs to the photoresist coated surface of the semiconductor wafer.
 - (A) Equipment for coating wafers with photoresist these include the photoresist spinners which are used to apply liquid photoresist evenly over the surface of the wafer.
 - (B) Equipment for exposing the photoresist coated wafer with the circuit design (or a part thereof):
 - (1) Using a mask or reticle and exposing the photoresist to light (generally ultraviolet) or, in some instances, X-rays:
 - (a) Contact printers where the mask or reticle is in contact with the wafer during exposure.
 - (b) Proximity aligners similar to contact aligners except actual contact doesn't take place between the mask or reticle and the wafer.
 - (c) Scanning aligners which use projection techniques to expose a continuously moving slit across the mask and wafer.
 - (d) Step and repeat aligners which use projection techniques to expose the wafer a portion at a time. Exposure can be by reduction from the mask to the wafer or 1:1. Enhancements include the use of an excimer laser.
 - (2) Direct write on wafer equipment these apparatus operate with no mask or reticle. They use a computer controlled "writing beam" (such as, an electron beam (E-beam), ion beam or laser) to "draw" the circuit design directly on the photoresist coated wafer.
 - (C) Equipment for developing exposed wafers these include chemical baths similar to those used in photographic laboratory applications
- (d) Assembly equipment
 - Dicing equipment these include sawing machines and scribing machines (including laser scribers) and dicing accessories such as wafer breaking equipment.
 - (ii) Die bonding equipment which installs the die to the package by soldering or gluing
 - (iii) Wire bonding equipment used for attaching thin wires or tapes (usually of gold, aluminum or copper) from the die bonding pads to the corresponding pads on the package.
 - (iv) Packaging equipment which are used to encapsulate or package a semiconductor device. They include sealing furnaces, lid welders, plastic encapsulation presses, lead trim and form equipment, package deflashers, and tin dip and solder plate equipment.
- (e) Testing and inspection equipment
 - (i) Optical inspection equipment These include equipment that "examines" portions of the wafer surface and compares them either to a standard pattern or to other portions of the wafer surface.
 - (ii) Electrical testing equipment These include computer controlled systems that test the functions and electrical specifications of semiconductor devices through the application and detection of electrical signals or patterns. Testing is performed on both unencapsulated dice and packaged integrated circuits.

Annotated for Statistical Reporting Purposes

CHAPTER 84

NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF

Notes

1. This chapter does not cover:

- (a) Millstones, grindstones or other articles of chapter 68;
- (b) Appliances or machinery (for example, pumps) or parts thereof, of ceramic material (chapter 69);
- (c) Laboratory glassware (heading 7017); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 7019 or 7020);
- (d) Articles of heading 7321 or 7322 or similar articles of other base metals (chapters 74 to 76 or 78 to 81);
- (e) Electromechanical tools for working in the hand, of heading 8508, or electromechanical domestic appliances of heading 8509; or
- (f) Hand-operated mechanical floor sweepers, not motorized (heading 9603).
- 2. Subject to the operation of note 3 to section XVI, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424 and at the same time to a description in one or more of the headings 8425 to 8480 is to be classified under the appropriate heading of the former group and not the latter.

Heading 8419 does not, however, cover:

- (a) Germination plant, incubators or brooders (heading 8436);
- (b) Grain-dampening machines (heading 8437);
- (c) Diffusing apparatus for sugar juice extraction (heading 8438);
- (d) Machinery for the heat treatment of textile yarns, fabrics or made up textile articles (heading 8451); or
- (e) Machinery or plant, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 8422 does not cover:

- (a) Sewing machines for closing bags or similar containers (heading 8452); or
- (b) Office machinery of heading 8472.
- 3. A machine tool for working any material which answers to a description in heading 8455 and at the same time to a description in heading 8457, 8458, 8459, 8460, 8461, 8464 or 8465 is to be classified in heading 8456.
- 4. Heading 8457 applies only to machine tools for working metal (other than lathes) which can carry out different types of machining operations either:
 - (a) By automatic tool change from a magazine or the like in conformity with a machining program (machining centers);

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- (b) By the automatic use, simultaneously or sequentially, of different unit heads working on a fixed-position workpiece (unit construction machines, single station); or
- (c) By the automatic transfer of the workpiece to different unit heads (multistation transfer machines).

XVI 84-1 Annotated for Statistical Reporting Purposes

84-2

- (A) For purposes of heading 8471, the expression "automatic data processing machines" means:
 - (a) Digital machines, capable of (1) storing the processing program or programs and at least the data immediately necessary for execution of the program; (2) being freely programmed in accordance with the requirements of the user; (3) performing arithmetical computations specified by the user; and, (4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run;
 - (b) Analog machines capable of simulating mathematical models and comprising at least: analog elements, control elements and programming elements;
 - (c) Hybrid machines consisting of either a digital machine with analog elements or an analog machine with digital elements.
 - (B) Automatic data processing machines may be in the form of systems consisting of a variable number of separately housed units. A unit is to be regarded as being a part of the complete system if it meets all of the following conditions:
 - (a) It is connectable to the central processing unit either directly or through one or more other units; and
 - (b) It is specifically designed as part of such a system (it must, in particular, unless it is a power supply unit, be able to accept or deliver data in a form (code or signals) which can be used by the system).

Such units entered separately are also to be classified in heading 8471.

Heading 8471 does not cover machines incorporating or working in conjunction with an automatic data processing machine and performing a specific function. Such machines are classified in the headings appropriate to their respective functions or, failing that, in residual headings.

- Heading 8482 applies, inter alia, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1 percent or by more than 0.05 mm, whichever is less. Other steel balls are to be classified under heading 7326.
- A machine which is used for more than one purpose is, for the purposes of classification, to be treated as if its principal purpose were its sole purpose.

Subject to note 2 to this chapter and note 3 to section XVI, a machine the principal purpose of which is not described in any heading or for which no one purpose is the principal purpose is, unless the context otherwise requires, to be classified in heading 8479. Heading 8479 also covers machines for making rope or cable (for example, stranding, twisting or cabling machines) from metal wire, textile yern or any other material or from a combination of such materials.

Subheading Note

1. Subheading 8482.40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

Additional U.S. Note

 For the purposes of subheadings 8479.89.10, 8479.89.65, 8479.89.90, 8479.90.40 and 8479.90.95, the rate of duty "Free (C)" appearing in the column entitled "1-Special" applies only to the following articles and their parts: nonelectric starter motors; propeller regulators, nonelectric; servo-mechanisms, nonelectric; windshield wipers, nonelectric; hydropneumatic accumulators; pneumatic starters for turbojets, turbopropellers, or other gas turbines; toilet units specially designed for aircraft; mechanical actuators for thrust reversers; air humidifiers and dehumidifiers.

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- 2. Subheadings 8473.30.30 and 8473.30.60 cover the following parts of printers of subheading 8471.92:
 - (a) Control or command assemblies, incorporating more than one of the following: printed circuit assembly, hard or flexible (floppy) disk drive, keyboard, user interface;
 - (b) Light source assemblies, incorporating more than one of the following: light emitting diode assembly, gas laser, mirror polygon assembly, base casting;
 - (c) Laser imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner developing unit, charge/discharge units, cleaning unit;
 - (d) Image fixing assemblies, incorporating more than one of the following: fuser, pressure roller, heating element, release oil dispenser, cleaning unit, electrical control;
 - (e) Ink jet marking assemblies, incorporating more than one of the following: thermal print head, ink dispensing unit, nozzle and reservoir unit, ink heater;
 - (f) Maintenance/sealing assemblies, incorporating more than one of the following: vacuum unit, ink jet covering unit, sealing unit, purging unit;
 - (g) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray;
 - (h) Thermal transfer imaging assemblies, incorporating more than one of the following: thermal print head, cleaning unit, supply or take-up roller;
 - (ij) Ionographic imaging assemblies, incorporating more than one of the following: ion generation and emitting unit, air assist unit, printed circuit assembly, charge receptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle and distribution unit, developing unit, charge/discharge unit, cleaning unit; or
 - (k) Combinations of the above specified assemblies.

Statistical Note:

1. For the purposes of subheading 8465.93.00, the term wide belt sanders refers to those belt sanders which use a belt with a width of 30 cm or wider.

Annotated for Statistical Reporting Purposes

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| ubrieading | IIX | Nuclear reactors; fuel elements (cartridges), | | and the same of the same | | and the second second |
| 401 | | non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts | | entreast 20 also | antidase atta | |
| 401.10.00 | 00 | thereof: Nuclear reactors | t | 6.52 | Free (A,CA,E,IL,J, MX) | 45X |
| 401.20.00 | 00 | Machinery and apparatus for isotopic separation, and parts thereof | t | 3.92 | Free (A,CA,E,IL,J, MX) | 35 X |
| 401.30.00 | 00 | Fuel elements (cartridges), non-irradiated, and parts thereof | x | 6.52 | Free (A,CA,E,IL,J, MX) | 45Z |
| 401.40.00 | 00 | Parts of nuclear reactors | t | 6.5Z | Free (A,CA,E,IL,J, MX) | 45Z |
| 3402 | 80 | Steam or other vapor generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super- heated water boilers; parts thereof: Steam or other vapor generating boilers: | | . advelle | and the second second | 38 38 |
| 3402.11.00 | 00 | Watertube boilers with a steam production exceeding 45 t per hour | t | 6.5% | Free (A,CA,E,IL,J, MX) | 452 |
| 3402.12.00 | 00 | Watertube boilers with a steam production not exceeding 45 t per hour | t | 6.52 | Free (A,CA,E,IL,J MK) | 452 |
| 8402.19.00 | 00 | Other vapor generating boilers, including hybrid boilers | t | 6.52 | Free (A,CA,E,IL,J | |
| 402.20.00 | 00 | Super-heated water boilers | t | 6.52 | Free (A*, CA, E, IL, J.MX) | 45Z |
| 3402.90.00 | | Parts | | 6.52 | Free (A,CA,E,IL,J MX) | . 45I |
| 43.99 50g | 10 90 | Heat exchangers | tX | .22 | In again | - |
| 8403 | | Central heating boilers (other than those of heading 8402) and parts thereof: Boilers | No | 4 27 | Free (A,CA,E,IL,J | 452 |
| 8403.10.00 | 00 | | x | | MX) Free (A,CA,E,IL,J | |
| 8403.90.00 | 00 | Parts | A | 9.26 | M2C) | |
| 8404 | | Auxiliary plant for use with boilers of heading 8402 or (*03 (for example, economizers, super- heaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: | | | | |
| 8404.10.00 | | Auxiliary plant for use with boilers of heading 8402 or 8403 Economizers | | 71 | Free (A,CA,E,IL, MX) | I, 45Z |
| 8404.20.00 | 10 50 00 | Condensers for steam or other vapor power units | t | 72 | Free (A,CA,E,IL, MX) | J, 452 |
| 8404.90.00 | 00 | Parts | x | 72 | Free (A,CA,E,IL, MX) | J, 45Z |
| 8405 | | Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or | | ۰. | | |
| 8405.10.00 | 00 | without their purifiers; parts thereof: Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their | | | Free (A,CA,E,IL, | 1 457 |
| | | purifiers | x | 2.82 | MX) | |
| 8405.90.00 | 00 | Parts | x | 2.82 | Free (A,CA,E,IL, MX() | J, 452 |

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XVI

Annotated for Statistical Reporting Purposes

| Heading/ | Stat. | Anticle Description | | Units | | Rates of Dut | | - | |
|--------------------------|--|---------------------------------------|---|-------------------------------|-------------------|--|-------------------------|--------------|--------------------|
| Subheading | C | Special L | Article Description | the man and the second second | Quantity | General | Special | | 2 |
| 3442 | tix | the machine t | paratus and equipment (oth cols of headings 8455 to a | 8465), Ior | | Genera | | | ili acti az |
| 11 | 23,423 | type-founding making printing | or typesetting, for preparent of the set of | ers or other ocks. | · secondara | · · · · · · · · · · · · · · · · · · · | thereast: | | |
| | 10.000 C | plates, cylin blocks, plate | ders and other printing co s, cylinders and lithograp printing purposes (for ex | phic stones, | potosi usit | naranga bar n nggan bitanati | aukionit oneonia ori | 90 rokasi | |
| 3442.10.00 | 00 | planed, grain Phototyp Machinar | ed or polished); parts the esetting and composing man apparatus and equipment | ereof: chines t for | No | Free | a latter an | | Free |
| \$442.20.00 | 00 | typesett processe | ing or composing by other s, with or without founding | ng device | No | Free | | 1111 | Free |
| 3442.30.00 3442.40.00 | 00 00 | Other ma Parts of or equip | chinery, apparatus and eq the foregoing machinery, ment. | apparatus | No | Free Free | | | Free Free |
| 8442.50 | tional t Poppar encode | Printing other pr | type, blocks, plates, cy. inting components; blocks | , plates, | | | | | |
| 8442.50.10 | 10 | grained | ting purposes (for example or polished): tes | | | Free | | | 251 |
| 453 724 | 10 | | otherwise prepared for engraving or impressing | | No. | | | | |
| 8442.50.90 | 90 | Oth | Other | | No. | 82 | Free (A,CA,E | ,IL,J, | 60 Z |
| Stationge | 10 | 82000 634 Call | Planed, grained, polish otherwise prepared for engraving or impressing | | No. | and sectory back | and the second second | | |
| ** | 90 | 120 250 | Other | | No. | | | | |
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XVI 84-45

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XVI

Annotated for Statistical Reporting Purposes

| 84-46 | Stat. Suf- fix | Article Description | Units of Quantity | Rates of Duty | | |
|------------------------|----------------------|--|-------------------------|-----------------|---------------------------|----------------|
| Heading/ Subheading | | | | General | Special | 2 |
| 8443 | 14 | Printing machinery; machines for uses ancillary to printing; parts thereof: Offset printing machinery: | | | | |
| 8443.11.00 | 00 | Reel-fed. | No | 3.32 | Free (A,CA,E,IL,J, MX) | 25% |
| 8443.12.00 | 00 | Sheet-fed, office type (sheet size not exceeding 22 x 36 cm) | No | 3.32 | Free (A,CA,E,IL,J, MK) | 252 |
| 443.19 | | Other: | | 1(34342 20 | all sufficient east a | and and and |
| 8443.19.10 | 00 | Weighing 900 kg or less | No | 3.32 | Free (A,CA,E,IL,J, MX) | 251 |
| 8443.19.50 | 00 | Weighing more than 900 kg but less than 1,600 kg | No | 3.32 | Free (A,CA,E,IL,J, MX) | 252 |
| 8443.19.90 | 00 | | No | 2.42 | Free (A,CA,E,IL,J, MX) | 252 |
| | | Letterpress printing machinery, excluding flexographic printing: | adreda II | allocation , a | and realized and the | 1. A.F.100 |
| 8443.21.00 | 00 | Reel-fed | No | 3.32 | Free (A,CA,E,IL,J, MX) | |
| 8443.29.00 | 00 | 000002 | No | 3.32 | Free (A,CA,E,IL,J, MX) | to the second |
| 8443.30.00 | 00 | . TerroPrehine, Leanurg | No | 3.32 | Free (A,CA,E,IL,J, MX) | Summer and the |
| 8443.40.00 | 00 | Gravure printing machinery | No | 3.32 | Free (A,CA,E,IL,J, MX) | 252 |
| 8443.50 8443.50.10 | 00 | Other printing machinery: Textile printing machinery | x | 5.12 | Free (A,CA,E,IL,J, MX) | 402 |
| 8443.50.50 | 00 | Other | x | 3.32 | Free (A,CA,E,IL,J, MX) | 252 |
| 8443.60.00 | 00 | Machines for uses ancillary to printing | x | 3.37 | Free (A,CA,E,IL,J, MX) | 251 |
| 8443.90 8443.90.10 | 00 | Parts: Of textile printing machinery | x | 5.12 | Free (A,CA,E,IL,J, MX) | 402 |
| 8443.90.50 | 00 | Other | x | 3.32 | Free (A,CA,E,IL,J, MX) | 252 |
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Annotated for Statistical Reporting Purposes

CHAPTER 95

TOYS, GAMES AND SPORTS EQUIPMENT; PARTS AND ACCESSORIES THEREOF

Notes

- This chapter does not cover: 1.
 - (a) Christmas tree candles (heading 3406);
 - (b) Fireworks or other pyrotechnic articles of heading 3604;
 - (c) Yarns, monofilament, cords or gut or the like for fishing, cut to length but not made up into fishing lines, of chapter 39, heading 4206 or section XI;
 - (d) Sports bags or other containers of heading 4202, 4303 or 4304;
 - (e) Sports clothing or fancy dress, of textiles, of chapter 61 or 62;
 - (f) Textile flags or bunting, or sails for boats, sailboards or land craft, of chapter 63;
 - Sports footwear (other than skating boots with ice or roller skates attached) of chapter 64, or sports (g) headgear of chapter 65;
 - (h) Walking-sticks, whips, riding-crops or the like (heading 6602), or parts thereof (heading 6603);
 - (ij) Unmounted glass eyes for dolls or other toys, of heading 7018;
 - (k) Parts of general use, as defined in note 2 to section XV, of base metal (section XV), or similar goods of plastics (chapter 39);
 - (1) Bells, gongs or the like of heading 8306;
 - Electric motors (heading 8501), electric transformers (heading 8504) or radio remote control apparatus (m) (heading 8526);
 - (n) Sports vehicles (other than sleds, bobsleds, toboggans and the like) of section XVII;
 - (o) Children's bicycles (heading 8712);
 - Sports craft such as canoes and skiffs (chapter 89), or their means of propulsion (chapter 44 for such (p) articles made of wood);
 - (q) Spectacles, goggles or the like, for sports or outdoor games (heading 9004);
 - (r) Decoy calls or whistles (heading 9208);
 - (s) Arms or other articles of chapter 93;
 - (t) Electric garlands of all kinds (heading 9405); or
 - (u) Racket strings, tents or other camping goods, or gloves (classified according to their constituent material).
- This chapter includes articles in which natural or cultured pearls, precious or semiprecious stones (natural, synthetic or reconstructed), precious metal or metal clad with precious metal constitute only minor constituents. 2.
- Subject to note 1 above, parts and accessories which are suitable for use solely or principally with articles of this chapter are to be classified with those articles. 3.

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HARMONIZED TARIFF SCHEDULE of the United States (1994) - Supplement 1

| Handing/ St | | Stat. | | Rates of Duty | | | |
|--------------------------|---------------|--|----------------|-----------------|--|-----------------|--|
| Heading/ Subheading | Stat. Suf- | Article Description | of Quantity | General | 1 Special | 2 | |
| 9501.00 | fix | Wheeled toys designed to be ridden by children (for example, tricycles, scooters, pedal cars); dolls' carriages and dolls' strollers; parts and accessories thereof: Wheeled toys designed to be ridden by | | General | s at asletat | (000) | |
| | | children and parts and accessories thereof: Chain-driven wheeled toys | x | Free | and party the state | 27.52 | |
| 9501.00.20 9501.00.40 | 00 | Other | x | 3.62 | Free (A,E,IL,J,MX) 1.4Z (CA) | 452 | |
| 9501.00.50 | 00 | Dolls' carriages, dolls' strollers and parts and accessories thereof | x | 7.82 | Free (A,E,IL,J,MX) 3.1Z (CA) | 70 z | |
| 9502 | | Dolls representing only human beings and parts and accessories thereof: Dolls, whether or not dressed: | | Longer L | 1.22 (2.2, 2, 2, 2) 1.22 (2.2) | hea | |
| 9502.10 9502.10.20 | 00 | Stuffed | No | 127 1/ 2/ | Free (A,E,IL,J,MX) 4.8Z (CA) | 702 | |
| 9502.10.40 | 00 | Other: Not over 33 cm in height | No | 121 <u>1</u> / | Free (A,E,IL,J,MX) 4.8Z (CA) | 702 | |
| 9502.10.60 | 00 | Other: Capable of electromechani- cal movement of body parts activated by, and synchro- nized with, an integral or accompanying cassette tape player or micro- | | 25 | | | |
| BREAK ST | | processor | No | 122 | Free (A,E,IL,J,MX) 4.8Z (CA) | 701 | |
| 9502.10.80 | 00 | Other | No | 122 | Free (A,E,IL,J,MC 4.8Z (CA) | 701 | |
| 9502.91.00 | 00 | Parts and accessories: Garments and accessories thereof, foot- wear and headgear | x | 87 <u>1</u> / | Free (A,E,J,MX) 0.8Z (IL) 3.2Z (CA) | 702 | |
| 9502.99 | 00 | Other: Skins for stuffed dolls | x | 121 1/ 2/ | Free (A.E.IL.J.MX | 702 | |
| 9502.99.20 | 00 | Artificial eyes, except prosthetic articles | x | 6.47 1/ | 4.8Z (CA) Free (A,E,IL,J,MX | | |
| | | 1231 124 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | d Arrivers | ade files | 2.5% (CA) | 11-52 | |
| 9502.99.30 | 00 | Other | x | 12X <u>1</u> / | Free (E,IL,J) 4.8Z (CA) 9.6Z (MX) <u>3</u> / | 701 | |
| 9503 | | Other toys; reduced-size ("scale") models and similar recreational models, working or not; puzzles of all kinds; parts and accessories thereof: | terroritetrat | al ar other o | Participal Data | | |
| 9503.10.00 | | Electric trains, including tracks, signals and other accessories thereof; parts | | ine Ownering | Circa Tanti a | 1 | |
| and and | 10 | Assembly kits with construction | | 6.87 <u>1</u> / | Free (A,E,IL,J,MX 2.7Z (CA) | 701 | |
| Section Sec | | units prefabricated to an essentially uniform scale of the actual article | x | ALTRA TRACK | A CALL | and a second | |
| · 201 | 20 | Other, except parts: Made to a scale of the actual article at the ratio of 1 to 85 or smaller | x | | at all the scale and | 140.00 40.00 | |
| 10005.0580 10208.24 | 30 | Other: Made to a scale of the actual article at a ratio larger than 1 to 85 | x | of planting | | | |
| 10015 . 100 . \$10 | 40 50 | Other Parts. | x x | | in the part | 1 | |
| 10000.40 | | | Carlinger | ALCONTRA . | True and an | 1.200 | |

HARMONIZED TARIFF SCHEDULE of the United States (1994) - Supplement 1

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| Heading/ | Stat. | And to settly the Description of the | Units | | Rates of Duty | 2 |
|-----------------------|---------------------------|--|-----------------------|--|--|--|
| ubheading | Suf- | Article Description | Quantity | General | Special | 2 |
| Coneading | TIX | and a second sec | ind maintains | est of keepinch | Constantined | |
| 504 (con.) | | Articles for arcade, table or parlor games, | beg .22635 | | - Lines and a | |
| 504 (con. 1 | | | 1 BURNY COLOR | Sender State Con | A REAL PROPERTY AND A REAL PROPERTY A REAL PRO | |
| | | and special tables for casino games; automatic bowling alley equipment; parts and accessories | white and a | bomplants and | be to tell | |
| | | ······································ | | tion affine ken | e cut i tris | |
| | | att a seine or token-operated, other | | | 12 Prove 10 19562 | |
| 504.30.00 | Sec. 1 | the heating alley equipment: parts and | | 3.97 | Free (A.E.IL.J.MX) | 35Z |
| | and the | accessories thereof | | 3.36 | 1.5% (CA) | |
| Cherester | 1.250 | Video | x | TTAS ARBANA | 1 1 00 1 00 1 00 1 00 | |
| | 10 | Video Other: | See and | · en lan cininan l | 1 | |
| F Flamage | N. M. S. L. | General | | | - Property Street - The | |
| and the second second | 20 | Pinball machines and bell- | x | | and a second | |
| of choice | 1. m. 1. m. | type machines and consoles | • | and and the second | Conservation lines A | |
| | | Other | X | a star the leaster | Dollar, M | |
| | 40 | Parts and accessories | X | | Free (A,E,IL,J,MK) | 104/200 |
| 9504.40.00 | 60 00 | Playing cards | pack | 0.8¢/pack + | 0.3¢/pack + | + 202 |
| 3504.40.00 | 00 | 120/200 | | 0.84 | 0.3% (CA) | |
| | Side 1 | the ball and the second s | | | | |
| 9504.90 | | Other: Game machines, other than coin- or | | | | |
| 9504.90.40 | 00 | Game machines, outst that occurs of token-operated; parts and accessories | and the second second | | Free (A,CA,E,IL,J, | 357 |
| | | thereof | X | 3.91 <u>1</u> / | MX) | |
| | | white a state where a set has the set of the set | | and the second sec | | |
| | | | | The second second | | |
| A Theaterstate | 1. 2.1.4 | Other: Chess, checkers, parchisi, back- | | ther second in a | | |
| 9504.90.60 | 00 | darts and other sames | | and a particular state | | |
| | 1 | al aread on hoards of a special | | | 1 | - |
| | Links 1 | design all the foregoing games | | A STREET | | |
| | party and | and parts thereof (including their boards); mah-jong and | | - entry in the second states. | ine same | |
| | | deminest any of the foregoing | And any as | - Star Line Latin | and as a second second second | 1.03.24 |
| | | sames in combination with each | No. | Anteresting and lotes | | |
| | 1.000 | other or with other sames. | | A STREET | | |
| | hered | packaged together as a unit | | | | |
| | | in immediate containers of a type used in retail sales; | | | | |
| | 1 10 10 | poker chips and dice | X | 4.642 1/ | Free (A,E,IL,J,MX 1.8Z (CA) | 404 |
| | 1 | house such - | A DE MERE | | 1.04 (CA) | |
| | a series | er wordet | | 4.642 1/ | Free (A,E,IL,J,MX |) 40Z |
| 9504.90.90 | 10386.3 | Other | | 1.011 3 | 1.8% (CA) | |
| | | Bowling balls | No. | | | |
| | 40 | Bowling equipment and parts | and and a state of | | | |
| | 00 | and accessories thereof | x | | | |
| | a Sameters | service provential distant and the | x | | | |
| | 80 | Other | • | and an Exmension | and concide the star | |
| | 1 2.0.8 | | THE REPORT | A ALCONDA LACTOR | in the second second | a second |
| 9505 | | Festive, carnival or other entertainment, articles, including magic tricks and prac- | and the second | a contract particular | The entropy | |
| | Contraction of the second | tical joke articles; parts and accessories | | | Cicercian I | and the |
| | | | C. Manual S. M. | | the state of the second second | |
| 9505.10 | A Loves | Anticles for Christmas festivities and | The second | | | |
| 5565120 | 10000 | parts and accessories thereof: | | | | |
| | | Christmas ornaments: Of glass | X | 6.6Z | Free (A,E,IL,J,M |) 60X |
| 9505.10.10 | 00 00 | OI glass | | Sector Designation. | 2.62 (CA) | |
| | | Other: | to Berthins | 1 . 10 | Free (A,E,IL,J,M | 207 |
| 9505.10.1 | 5 00 | boow 20 | X | 5.12 | 27 (CA) | |
| 3303.10.1. | | | X | 57 2/ | Free (A,E,IL,J,M | 202 |
| 9505.10.2 | 5 00 | Other | | 4- | 27 (CA) | |
| | | Nativity scenes and figures thereof | X | 5.32 | Free (A.E.IL.J.M | 004 |
| 9505.10.30 | 0 00 | NELLATCH Scenes and segure and segure | 1 | | 2.12 (CA) | |
| 1 | | Other: | | 8.47 | Free (A.E.IL.J.M | C) 60Z |
| 9505.10.4 | 0 | Of plastics | | 0.44 | 3.31 (CA) | |
| 0000.20.4 | | Artificial Christmas trees | No. | the first and the | | |
| | 10 | Artificial Christmas trees | X | | | |
| | 20 | | a second | | Free (A,E,IL,J,M | 5) 90Z |
| | | Other | X | 5.82 | 2.31 (CA) | |
| | | | | | 6.00 (Mar) | |
| 9505.10.5 | " | | No | the second se | A CONTRACT OF A | and the second sec |
| 9505.10.5 | 10 | Artificial Christmas trees Other | No. | | | |

HARMONIZED TARIFF SCHEDULE of the United States (1994) - Supplement 1

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Annotated for Statistical Reporting Purposes

| Heading/ | Stat. Suf- | Article Description | Units | | 1 ston to Arrow the | 2 |
|-----------------------|---------------|--|----------|-----------------|---|---------------|
| Subheading | Suf- | Articia Description | Quantity | General | Special | 2 |
| 9505 (con.) | TIX | Festive, carnival or other entertainment articles, including magic tricks and prac- tical joke articles; parts and accessories thereof (con.): | | | | |
| 9505.90 9505.90.20 | 00 | Other: Magic tricks and practical joke arti- cles; parts and accessories thereof | x | 5.8% <u>1</u> / | Free (A, E, IL, J, MX) 2.37 (CA) | 702 |
| 9505.90.40 | 00 | Confetti, paper spirals or streamers, party favors and noisemakers; parts | ~ | 17 1/ | Free (A.E.IL.J.MX) | 457 |
| | | and accessories thereof | | 4Z <u>1</u> / | 1.62 (CA) | |
| 9505.90.60 | | Other | | 3.12 <u>1</u> / | Free (A,E,IL,J,MX) 1.2Z (CA) | 251 |
| | 10 | Of paper, foil or plastics | doz. | | | |
| | 20 | Other | doz. | | | |
| 9506 | 90 | Articles and equipment for general physical excercise, gymnastics, athletics, other sports (including table-tennis) or outdoor games, not specified or included elsewhere in this chapter; swimming pools and wading pools; parts and accessories thereof: Snow-skis and other snow-ski equipment; parts and accessories thereof: | | | | |
| 9506.11 | | Skis and parts and accessories thereof, | | | | |
| | 00 | ercept ski poles: Cross-country skis | prs | 3.52 | Free (A,CA,E,IL,J | 33 1/32 |
| 9506.11.20 | 00 | Other skis | prs | 5.12 | MX) Free (A,CA,E,IL,J MX) | 33 1/32 |
| 9505.11.60 | 00 | Parts and accessories | x | 3.52 | Free (A, CA, E, IL, J | 45Z |
| 9506.12 | | Ski bindings and parts and accessories | | | (MA) | |
| 9506, 12, 40 | 00 | thereof: Cross-country | x | 3.51 | Free (A, CA, E, IL, J | 452 |
| 9505.12.80 | 00 | Other | x | 5.5X | MX) Free (A,CA,E,IL,J MX) | , 45Z |
| 9506.19 | | Other: | SCHL | rees | | |
| 9506.19.40 | 00 | Cross-country | x | 3.52 | Free (A,CA,E,IL,J | |
| 9506.19.80 | | Other | | 5.5X | Free (A,CA,E,IL,J MX) | , 45 Z |
| | 40 | Ski poles and parts and accessories thereof | x | | | |
| 9506.21 | 80 | Other | x | | | |
| 9506.21.40 | 00 | thereof: Sailboards | No | 1.5% | Free (A,CA,E,IL,J | , 30 Z |
| 9506.21.80 | | Parts and accessories | x | 4.22 | MAC) Free (A, CA, E, J, MA | 302 |
| 9506.29.00 | | Other | | 4.642 | 0.4Z (IL) Free (A,E,IL,J,M) 1.8Z (CA) | 3) 40Z |
| | 20 | Water skis | prs. | | | |
| | 40 | Other Golf clubs and other golf equipment; parts and accessories thereof: | | - v | | |
| 9506.31.00 | 00 | Golf clubs, complete | No | 4.92 | Free (A,E,IL,J,M 1.9Z (CA) | |
| 9506.32.00 | 00 | Balls | doz | 2.41 | Free (A, E, IL, J, M2 0.97 (CA) 2/ | |
| 9506.39.00 | | Other | | 4.92 | Free (A.E.IL.J.M 1.97 (CA) 2/ | 302 |
| | 60 | Parts of golf clubs | | | | |
| 9506.40.00 | 80 00 | Other Articles and equipment for table-tennis, and parts and accessories thereof | x | 5.12 | Free (A,E,IL,J,M | 30Z |

1/ See subheading 9902.71.13. 2/ See subheading 9905.95.01 and 9905.95.03.

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Section 6: Appendices

Section 7

Additional Resources

Section & Section

Section 7

Additional Resources

PIA Tradeshow/Meeting Calendar

| DATE 1994 April 6-9 | MEETING Master Printers of America Leadership Conference Scottsdale Plaza Resort Scottsdale, Arizona | CONTACT Brenda Steele (703) 519-8132 |
|---------------------------|---|--|
| April 7-9 | Graphic Arts Show Company MidWest Graphics Cobo Conference/Exhibition Center Detroit, Michigan | Jody Werner (703) 264-7208 |
| April 10-15 | Graphic Communications Association SGML Tutorial Series Santa Clara, California | Joy Blake (703) 519-8177 |
| April 12-15 | Marketing: PIA Financial Executives Spring Meeting Silverado Hotel Napa Valley, California | Wendy Shapiro (703) 519-8137 |
| April 12-15 | Graphic Communications Association Addressing/Distribution Spring Forum Intercontinental Hotel New Orleans, Louisiana | Alex Shamoff (703) 519-8199 |
| April 13-14 | Graphic Communications Association From Imagination to Press The Westin O'Hare Rosemont, Illinois | |
| April 19-20 | Graphic Communications Association From Imagination to Press Wyndham Garden Hotel Commerce, California | Jim Harvey (703) 519-8166 |
| April 25-26 | Graphic Communications Association Metrology Workshop Rochester, New York | Jim Harvey (703) 519-8166 |
| April 30-May 4 | PIA Spring Administrative Meetings & Legislative Conference Loews L'Enfant Plaza Washington, D.C. | Terry Harris (703) 519-8110 |

| DATE May 1-3 | Meeting LPIA Label Printing Technical Seminar St. Paul Hotel | <u>Contact</u> Lois Eck (703) 519-8122 |
|-----------------|---|--|
| May 9-11 | St. Paul, Minnesota Web Offset Association 42nd Annual Conference Loews Anatole Hotel Dallas, Texas | |
| May 15-19 | Graphic Communications Association SGML Europe Montreux, Switzerland | Tanya Bosse (703) 519-8174 |
| May 19-20 | Graphic Communications Association Control of Paper (ConPap) '94 Zurich, Switzerland | Alan Kotok (703) 519-8173 |
| May 23-24 | Graphic Communications Association From Imagination to Press Roosevelt Hotel New York, New York | Jim Harvey (703) 519-8166 |
| May 23-27 | Graphic Communications Association Color Connections New York, New York | Jim Harvey (703) 519-8166 |
| June 1-2 | Graphic Communications Association From Imagination to Press The Park Inn Minneapolis, Minnesota | Jim Harvey (703) 519-8166 |
| June 9-10 | Web Offset Association Magazine Printers Section Mtg. Daytona Hilton Daytona, Florida | Beth Parrott (703) 519-8141 |
| June 13-16 | Graphics Communications Association OnLine Publishing '94 New York, New York | Tanya Bosse (703) 519-8174 |

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| DATE June 19-22 | <u>MEETING</u> Marketing: Print Sales & Marketing '94 Conference Williamsburg Lodge Williamsburg, Virginia | CONTACT Wendy Shapiro (703) 519-8137 | |
|--------------------|---|--|--|
| June 19-22 | Graphic Arts Marketing Information Service Annual Meeting The Hospitality House Williamsburg, Virginia | Trisha Hurlburt (703) 519-8176 | |
| July 18-22 | Graphic Communications Association SGML Tutorial Series Boston, Massachusetts | Joy Blake (703) 519-8177 | |
| July 21 | PIA Executive Committee PIA Headquarters Alexandria, Virginia | Terry Harris (703) 519-8110 | |
| July 25-28 | Graphic Communications Association International Conference on the Application of HyTime Vancouver, British Columbia | Joy Blake (703) 519-8177 | |
| July 26-28 | Graphic Communications Association Addressing/Distribution Summer Forum Hyatt Regency | Alex Shamoff (703) 519-8199 | |
| | Baltimore, Maryland | | |
| Aug 29-30 | Finance & Administration Committee Meeting Embassy Suites Alexandria, Virginia | Karen Smith (703) 519-8112 | |
| Sept 18-21 | Graphics Communication Association Spectrum '94 The Arizona Biltmore Scottsdale, Arizona | Jim Harvey (703) 519-8166 | |
| Sept 19-23 | Graphic Communications Association SGNL Tutorial Series Ft. Lauderdale, Florida | Joy Blake (703) 519-8177 | |

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| DATE Sept 21-23 | MEETING Graphic Arts Marketing Information Service GAMIS Quarterlt Meeting Loews Annapolis Hotel Annapolis, Maryland | CONTACT Trisha Hurlburt (703) 519-8176 |
|--------------------|---|--|
| Sept 25-28 | Graphic Arts Show Company Graph Expo East Pennsylvania Convention Center Philadelphia, Pennsylvania | Jody Werner (703) 264-7208 |
| Sept 29-Oct 7 | Executive Development Program Airlie Conference Center Airlie, Virginia | Diane Swanson (703) 519-8183 |
| Oct 1-2 | Master Printers of America Board of Directors Meeting Royal Sonesta Hotel New Orleans, Louisiana | Brenda Steele (703) 519-8132 |
| Oct 2-5 | LPIA Fall Management Conference Sonests Key Biscayne Key Biscayne, Florida | Lois Eck (703) -519-8122 |
| Oct 7-12 | Graphic Communications Association SGML Asia-Pacific Singapore | Joy Blake (703) 519-8177 |
| Oct 9-11 | PIA National Leadership Meeting Boca Raton Resort Boca Raton, Florida | Terry Harris (703) 519-8110 |
| Oct 16-19 | Master Printers of America Management Development Seminar El Dorado Hotel Sante Fe, New Mexico | Negin Shakibi (703) 519-8135 |
| Oct 19-20 | Binding Industries of America Mid-Management Seminar Woodfield Hilton & Towers Arlington Heights, Illinois | James Niesen (312) 372-7606 |
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| DATE Oct 19-21 | <u>MEETING</u> Marketing: Printing industry Financial Executive Fall '94 Meeting Westin Canal Place New Orleans, Louisiana | CONTACT Wendy Shapiro (703) 519-8137 | |
|-------------------|---|--|--|
| Oct 23-26 | ITA Annual Convention The Point at Tapatio Cliffs Phoenix, Arizona | Lois Eck (703) 519-8122 | |
| Nov 14-15 | Governmental Affairs Govt. Affairs Planning Meeting Sandestin Beach Hilton Destin, Florida | Alex Graham (703) 519-8180 | |
| Dec 4-8 | Graphic Communications Association SGML '94 Boston, Massachusetts | Joy Blake (703) 519-8177 | |
| Dec 6-9 | Graphics Arts Marketing Information Service GAMIS Quarterly Meeting Stouffer Concourse Hotel Arlington, Virginia | Trisha Hulburt (703) 519- 8176 | |
| 1995 | | | |
| Jan 16-18 | Non-Heatset Web Section 17th Annual Conference The Arizona Biltmore Phoenix, Arizona | Ursula Chavez (703) 519-8142 | |
| Jan 26 | PIA Executive Committee PIA Headquarters Alexandria, Virginia | Terry Harris (703) 519-8110 | |
| Feb TBA | Graphic Communications Association Printer, Publisher, Paper Symposlum | Alex Shamoff (703) 519-8199 | |

| DATE Feb TBA | MEETING Human Relations-Education Presidents Conference St. Thomas, Virgin Islands | CONTACT Mary Garnett (703) 519-8189 |
|-----------------|--|---|
| Feb 8-11 | Graphic Arts Show Company Concepts Orlando, Florida | Jody Werner (703) 264-7208 |
| Mar 7-11 | Graphic Communications Association Documentation '95 Long Beach, California | Joy Blake (703) 519-8177 |
| Mar 12-15 | PIA Human Relations Conference Red Lion's La Posada Scottsdale, Arizona | Jim Kyger (703) 519-8133 |
| Mar 14-15 | Graphic Communications Association Addressing/Distribution Spring Conference '95 Ft. Lauderdale, Florida | Alex Shamoff (703) 519-8199 |
| Mar 16-19 | Graphic Arts Show Company Graphic Arts '95/The Charlotte Show New Charlotte Convention Center Charlotte, North Carolina | Jody Werner (703) 264-7208 |
| Apr 1-6 | Binding Industries of America Annual BIA Convention Desert Springs | James Niesen (312) 372-7606 |
| | Palm Springs, California | el 18-1755 ArEon Florenix, A |
| Apr 5-8 | Master Printers of America Leadership Conference Sonesta Key Biscayne Key Biscayne, Florida | Brensa Steele (703) 519-8132 |
| Apr 6-8 | Graphic Arts Show Company MidWest Graphics '95 Minneapolis Convention Center Minneapolis, Minnesota | Jody Werner (703) 264-7208 |

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| DATE Apr 30-May 3 | MEETING Web Offest Association 43rd Annual Conference Sheraton Hotel & Towers Chicago, Illinois | CONTACT Ursula Chavez (703) 519-8142 |
|----------------------|---|--|
| May 7-10 | PIA Spring Administrative Meetings & Legislative Conference Washington, D.C. | Terry Harris (703) 519-8110 |
| Jun 18-21 | Marketing Print Sales & Marketing Meeting Tamarron Resort Durango, Colorado | Wendy Shapiro (703) 519- 8137 |
| Jul 20 | PIA Executive Committee PIA Headquarters Alexandria, Virginia | Terry Harris (703) 519-8110 |
| Jul 25-27 | Graphic Communication Association Addressing/Distribution Summer Forum Philadelphia, Pennsylvania | Alex Shamoff (703) 519-8199 |
| Oct 5-13 | Executive Development Program Airlie Conference Center Airlie, Virginia | Diane Swanson (703) 519-8183 |
| Oct 6-8 | Master Printers of America Fall Board Meeting TBA | Brenda Steele (703) 519-8132 |
| Oct 8-11 | Graphic Arts Show Company Graph Expo '95 McCormick Place East Chicago, Illinois | Jody Werner (703) 264-7208 |
| Oct 22-25 | Master Printers of America Management Development Seminar TBA | Negin Shakibi (703) 519-8135 |

| Apr 5.3 | |
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