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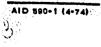
9. ABSTRACT

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## BIBLIOGRAPHY OF INTERMEDIATE TECHNOLOGY MATERIALS HELD AT THE INTERNATIONAL DEVELOPMENT DATA CENTER

Compiled by Kay Ellen Auciello

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Economic Development Laboratory ENGINEERING EXPERIMENT STATION Georgia Institute of Technology Atlanta, Georgia February 1976

## INTRODUCTION

The <u>Bibliography of Intermediate Technology Materials Held at the Inter-</u><u>national Development Data Center</u> is an attempt to pull together in an organized manner various publications concerned with the subjects of technology selection and adaptation for particular situations in developing countries. It contains reports, papers, articles, monographs, and serials that devote substantial coverage to various aspects of intermediate technology. The <u>Bibliography</u> is not comprehensive; only publications cataloged as of January 1976 in the IDDC collection are cited. It is meant to be a starting point for intermediate technology research.

The publications are arranged by broad subject categories and entered alphabetically by author (or if no author, by title). Preceding each entry is the IDDC location symbol

Your comments on the organization and usefulness of the <u>Bibliography</u> are invited.

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- 51235 COMMUNITY WATER SUPPLY: A SELECTED LIST OF REFERENCES FOR A.I.D. TECHNICIANS. (A.I.D. Bibliography Series: Health, No. 1.) 1969. 20p.
- 51263 . SMALL AND MEDIUM INDUSTRY DEVELOPMENT. (A.I.D. Bibliography Series: Science and Technology, No. 1.) 1974. 131p.
- 51264 FOREIGN TECHNICAL ASSISTANCE EXPERTS AND HOST COUNTRY COLLEAGUES. (A.I.D. Bibliography Series: Technical Assistance Methodclogy, No. 1.) 1972. 57p.
- 51231 . SOCIAL INDICATORS: A SELECTED LIST OF REFERENCES FOR A.I.D. TECHNICIANS. (A.I.D. Bibliography Series: Technical Assistance Methodology, No. 2.) 1972. 27p.
- 51224 . THE TECHNICAL ASSISTANCE PROCESS: AN INTRODUCTORY BIBLIOGRAPHY. (A.I.D. Bibliography Series: Technical Assistance Methodology, No. 3.) 1974. 46p.
- 51972 Volunteers in Asia. APPROPRIATE TECHNOLOGY SOURCEBOOK: FOR TOOLS AND TECHNIQUES THAT USE LOCAL SKILLS, LOCAL RESOURCES AND RENEWABLE SOURCES OF ENERGY, by Kenneth Darrow and Rick Pam. 1975. 72p.
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Papers from an A/D/C East-Asian Regional Workshop held in Tokyo from August 23-31, 1971. The 22 papers concern "Factors and Issues in Farm Mechanization in East Asia," "Government Policies Relating to Farm Mechanization," "The Farmer and His Management Decisions in Mechanization," "Research Needs and Analytical Tools," "Factor Interrelationships Involved in Mechanization," "The Social and Economic Framework," "Machinery Design and Availability and other Technological Issues in Farm Mechanization."

- 51846 American Society of Agricultural Engineers. CONFERENCE PROCEEDINGS: COMPUTERS AND FARM MACHINERY MANAGEMENT. A symposium of papers presented during a conference dealing with computer applications in farm machinery management. Sherman House, Chicago, Illinois. December 9-10, 1968. In conjunction with the 1968 ASAE Winter Meeting. 1969. 55p.
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- 51775 . FRUIT, NUT AND VEGETABLE HARVESTING EQUIPMENT MANUFAC-TURERS: ASAE BIBLIOGRAPHY. 1971.

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- 51953 Buchele, Wesley F., and Joseph K. Campbell. FEASIBILITY OF USING INTERMEDIATE TECHNOLOGY TO PRODUCE AGRICULTURAL TOOLS AND MACHINERY IN GHANA. 1975. Various pagings.

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- 51987 Dommen, Arthur J. THE BAMBOO TUBE WELL: A NOTE ON AN EXAMPLE OF INDIGENOUS TECHNOLOGY. (In <u>Economic Development and Cultural Change</u>, 23 (April 1975.) 1975. 483-489p.
- A6535 Donkin, D. J. "A Simple, Cheap and Effective Cattle Bail." APPRO-PRIATE TECHNOLOGY. 2 (May 1975) 15.
- A6535 Dunn, P. D. "The Humphrey Pump." APPROPRIATE TECHNOLOGY, 2 (May 1975) 20-21.

- 51776 Gray, R. B. THE AGRICULTURAL TRACTOR, 1855-1950. Volumes One and Two. Combined Edition. 1974. Vol. 1-46p. Vol. 2-54p. A chronological history of the development of the agricultural tractor in the U. S. Photographs and drawings.
- A6535 Harrison, P. L. "Twenty-four Solutions to a Bearing Problem?" INTERMEDIATE TECHNOLOGY BULLETIN, 8 (1971) 14-15.
- A6535 "How to Make a Simple but Effective Fruit Picker." INTERMEDIATE TECHNOLOGY BULLETIN, 8 (1971) 13.
- 50887 Intermediate Technology Development Group, Ltd. GUIDE TO HAND-OPERATED AND ANIMAL-DRAWN EQUIPMENT. 1973. 82p.

Supersedes part of the original ITDG directory, <u>Tools for Progress</u> (now out of print). The listing for each piece of equipment include an illustration, brief description, name and address of manufacturer.

. HOW TO MAKE A METAL-BENDING MACHINE. (Tools for Agriculture: Technical Publication.) 1972. 24p.

"This low-cost pivot principle hand-operated metal bending machine. . . is fabricated of easily available mild steel flat, angle, bar and pipe materials." Drawings and photographs.

52013 A MANUAL OF INFORMATION ON THE AUTOMATIC HYDRAULIC RAM FOR PUMPING WATER, by S. B. Watt. n.d. 37p.

51948 . REPORT ON FARM EQUIPMENT DEVELOPMENT PROJECT-DAUDAWA, N.C.S. NIGERIA. Nov. 1971-Dec. 1973. 1974. 111p.

Report on one of the ITDG farm machinery development projects whose purposes are ". . . to study the pattern of local agriculture, assess which labour bottlenecks limit production and introduce appropriate machinery to alleviate these bottlenecks." Appendices include photographs and machine designs.

- 51257 \_\_\_\_\_. OIL DRUM FORGE DESIGNED FOR LOCAL CONSTRUCTION. 1973.
- 51240 . THE "WANANCHI" OX-CART, Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 1. n.d. unpaged.

51241 . CART FOR ONE DRAUGHT ANIMAL. Agricultural Equipment and Tools for Farmers Designed for Local Construction. No. 2 and unpaged.

51242 . UX-CART USING OLD CAR WHEELS. Agricultural Equipment and Tools for Farmers Designed for Local Construction. No. 3. n.d. unpaged.

- 51243 "KABANYOLO" TOOLBAR. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 4. n.d. unpaged.
- 51244 . "CHITEDZE RIDGEMASTER" TOOLBAR. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 5. n.d. unpaged.
- 51245 . PROTOTYPE MULTI-PURPOSE OX-DRAWN TOOL. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 6. n.d. unpaged.
- 51246 . FIVE-TINE SWEEP CULTIVATOR AND HIGH-CLEARANCE PEG-TOOTHED HARROW. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 7. n.d. unpaged.
- 51247 . TRIANGULAR SPIKE-TOOTH HARROW. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 8. n.d. unpaged.
- 51248 . FLEXIBLE PEG-TOOTH HARROW AND RIGID-FRAME "JAPANESE" HARROW. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 9. n.d. unpaged.
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- 51255 \_\_\_\_\_\_. ROTARY WEEDER FOR ROW-PLANTED RICE. Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 16. n.d. unpaged.
- 51256 . MULTI-ACTION PADDY-FIELD PUDDLING TOOL (JAPAN). Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 17. n.d. unpaged.

- 52012 Intermediate Technology Development Group, Ltd. CASSAVA GRINDER, (Zaria, Nigeria.) Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 27. n.d. 11p.
- 52010 ROTARY CORN THRESHER. (Zaria, Nigeria.) Agricultura Equipment and Tools for Farmers Designed for Local Construction, No. 28. n.d. 10p.
- 52011 I.D.C. BORNU GROUNDNUT LIFTER. I.T. GROUNDNUT LIFTER Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 29. n.d. 8p.
- 52009 I.T. GRANULE APPLICATOR. (Daudawa, N.C.S. Nigeria.) Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 30. n.d. 12p.
- 52008 I.T. EXPANDABLE CULTIVATOR. (Daudawa, N.C.S. Nigeria.) Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 31. n.d. 7p.
- 52007 HAND-OPERATED SEED DRESSING DRUM. (Chitedze, Malawi.) Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 32. n.d. 5p.
- 52006 I.T. HIGH-CLEARANCE ROTARY HOE. (Daudawa, N.C.S. Nigeria.) Agricultural Equipment and Tools for Farmers Designed for Local Construction, No. 33. n.d. 7p.

Each pamphlet contains three to seven pages of drawings and description.

- 51415 International Rice Research Institute. Agricultural Engineering Department. DEVELOPMENT OF AGRICULTURAL MECHANIZATION TECHNOLOGIES AT THE INTERNATIONAL RICE RESEARCH INSTITUTE, by Amir U. Khan and Bart Duff. 1973. 13p. and tables.
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- 51272 . DRYING AND PROCESSING RESEARCH AT IRRI, by A. S. Manalo, et al. Prepared for U. S. Agency for International Development. 1972. 24p.
- 51271 ECONOMIC ASPECTS OF HAND TRACTOR OWNERSHIP AND OPERA-TION, by Bert Orcino. Prepared for U. S. Agency for International ÷. Development. 1972. 32p.

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- 51556 . SELECTIVE EMPLOYMENT OF LABOR AND MACHINES FOR AGRI-CULTURAL PRODUCTION, by B. A. Stout and C. M. Downing. (Monograph No. 3.) 1974. 23p.

"This paper emphasizes selective mechanization as an approach to applying mechanical technology compatible with the development and employment needs of agriculture in developing countries."

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- 51169 . ANIMAL DRAWN TOOLBAR. Tropical Agricultural Engineering Information. (Technical Bulletin, No. 2.) 1969. 16p.

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- 51952 Thammasat University. DOMESTICALLY PRODUCED SMALL FARM TRACTORS IN THAILAND. A Thesis by Ungthip Chinapant. 1974. 77p.
- 51951 . ECONOMICS OF SMALL TRACTOR PRODUCTION IN THAILAND. A Thesis by Chirmsak Pinthong. 1974. 76p.
- 52022 United Nations Industrial Development Organization. ANIMAL-DRAWN AGRICULTURAL IMPLEMENTS, HAND-OPERATED MACHINES AND SIMPLE POWER EQUIP-MENT IN THE LEAST DEVELOPED AND OTHER DEVELOPING COUNTRIES. Report of a Manufacturing Development Clinic. New Delhi, India. 21-30, Oct. 1974. 1975. 45p.

Report on the clinic organized jointly by UNIDO and Ministry of Agriculture, Government of India. Includes recommendations and summaries of the sessions. Annexes include a listing of organizations proposed for participation in follow-up activities in each country and photographs of selected agricultural equipment demonstrated at the clinic. 51192 United Nations Industrial Development Organization. REPORT OF THE EXPERT GROUP MEETING ON AGRICULTURAL MACHINERY INDUSTRY IN DEVELOPING COUNTRIES. Vienna, 18-22 August 1969. 1970. 318p.

Part I - recommendations. Part II - consensus of the meeting towards formulation of recommendations. Part III - report on the agricultural machinery industry in developing countries. Tables.

51204 THE ROLE OF UNIDO IN PROMOTING THE AGRICULTURAL MACHIN-ERY AND IMPLEMENTS INDUSTRY. 1972. 88p.

> Summary of types of assistance UNIDO can provide for the agricultural equipment industry in LDC's. Gives description of past and current programs and procedure required to obtain UNIDO assistance.

51901 U. S. Department of Labor, Bureau of Labor Statistics. CASE STUDY DATA ON PRODUCTIVITY AND FACTORY PERFORMANCE - FARM IMPLEMENTS (Harrows, Cultivators, Plows, and Mowers). 1954. 251p.

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- 51187 Arthur D. Little, Inc. GUIDELINES FOR IDENTIFYING AND IMPLEMENTING PROJECTS TO REDUCE COSTS IN PUBLIC CONSTRUCTION IN DEVELOPING COUN-TRIES. Draft Version. Prepared for the Washington Conference, 12-14 November 1974. 1974. 54p. and annexes.
- A6535 Building in Iran." INTERMEDIATE TECHNOLOGY BULLETIN, 10 (1973) 3.
- 51180 California State University. International Institute of Housing Technology. MUD INTO BRICK. A Program of the International Institute of Housing Technology. 1973. unpaged.

Brochure describing California State's program.

- A6535 Calvert, K. C. "An Intermediate Approach to Low Cost Housing in the Pacific Islands." APPROPRIATE TECHNOLOGY, 1 (Summer 1974) 12-13.
- 50885 Dancy, Rev. Harold K. A MANUAL ON BUILDING CONSTRUCTION. Intermediate Technology Development Group, Ltd. 1973. 360p.

Originally published in Toronto, Canada, 1948 by the Sudan Interior Mission. Includes information on preparatory and business aspects of building construction and detailed material on masonry, carpentry, concrete and finishing trades. Illustrations and diagrams.

51830 East-West Center. Technology and Development Institute. LOW-COST HOUSING TECHNOLOGY: PROBLEMS, ISSUES AND A PROPOSED SOLUTION, by Louis J. Goodman, Albert G. H. Dietz, Hasan Poerbo, and Fredrich Burian. 1974. 31p.

The East-West TDI program on low-cost housing is discussed. Examples of low-cost housing in five countries are presented. Photographs and drawings.

- 52037 East-West Center. Technology and Development Institute. PROCEEDINGS OF THE ROVING WORKSHOP I: ACTIVITY OF THE LOW-COST HOUSING TECHNOL-OGY PROJECT. January 15-28, 1975. Indonesia, The Philippines, Honolulu, Hawaii. 1975. 55p.
- A6535 Ellis, C. I., and J. D. G. F. Howe. "Simple Methods for Building Low Cost Roads." APPROPRIATE TECHNOLOGY, 1 (Summer 1974) 22-23.
- A6535 "Housebuilding Breakthrough in Ghana." INTERMEDIATE TECHNOLOGY BUL-LETIN, 8 (1971) 16.
- 52030 IBEC Housing Corporation. CINVA-RAM BLOCK PRESS MANUAL. 1959. 6p.
- 52014 Intermediate Technology Development Group, Ltd. LIME AND ALTERNATIVE CEMENTS: PROCEEDINGS OF A ONE-DAY MEETING ON SMALL-SCALE MANUFACTURE OF CEMENTITIOUS MATERIALS. 1974. 164p.
- 51188 International Labour Office. APPROPRIATE TECHNOLOGY IN CONSTRUCTION. The Work of the ILO World Employment Programme. Conference on Achieve ment of Cost Reduction in Public Construction in Developing Countries (Washington, November 1974). 1974. 17p.

Report on the ILO project investigating the feasibility of labor-intensive methods in road construction. Reports on field studies undertaken in India, Iran, Thailand, Nepal, and Philippines are given.

51713 . ROADS AND REDISTRIBUTION. Social Costs and Benefits of Labour-Intensive Road Construction in Iran, by G. W. Irvin. 1975. 162p.

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51757 International Voluntary Services/Laos. EARTH BLOCKS FOR LAOS: AN IVS INSTRUCTION HANDBOOK, by Gustaf Carlson. 1964. 37p.

Covers climate factors, types of earth, block manufacture, block as a building material, care and maintenance of equipment. Photographs, diagrams, and bibliography.

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- A6535 Parry, J. P. M. "The Brick Industry Energy Conservation and Scale of Operations." APPROPRIATE TECHNOLOGY, 2 (May 1975) 24-26.
- A6535 Rao, Dr. A. V. R. "Roofing with Low-Cost Corrugated Asphalt Sheets." APPROPRIATE TECHNOLOGY, 1 (Winter 1974-75) 26-27.

Description of plant production properties and uses of low-cost corrugated asphalt sheets. Includes specifications of sheets manufactured in India.

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Includes diagrams and photographs.

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- 51160 United Nations Industrial Development Organization. PRODUCTION OF PANELS FROM AGRICULTURAL RESIDUES. Report of the Expert Working Group Meeting, Vienna, 14-18 December 1970. 1972. 37p.
- 51790 . PRODUCTION TECHNOLOGY WINNING, PREPARATION AND SHAPING OF CLAY, by H. W. H. West. 1970. 51p.

51792 STRUCTURAL CLAY PRODUCTS. 1968. 32b.

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- 51756 U. S. Agency for International Development/Laos. Royal Lao Government, Directorate of Agriculture. ENGINEERING HANDBOOK: CONCRETE FUNDAMENTALS, compiled by David R. Brooks and J. M. Simon Gog. 1969. 29p.
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- 51761 U. S. Agency for International Development. HANDBOOK OF TROPICAL AND SUBTROPICAL HORTICULTURE, by Ernest Mortensen and Ervin T. Bullard. 1970. 186p.
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#### MANAGEMENT

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	Plant Requirements for Manufacture of Kitchen Earthenware	May 1.959	3263
	Plant Requirements for Manufacture of Kitchen Earthenware	May 1955	3263
	Plant Requirements for Manufacture of of Kitchen Earthenware	May 1959	3269
	Plant Requirements for Manufacture of Kitchen Earthenware	May 1955	3269
	of Concrete Blocks, Pipe, and Slabs	May 1959	3271
	for Walls (two copies)		173a 174
	Will Making Concrete Block Pay in Your Community?	October, 1945	<sup>43</sup> (3271
	Plant Requirements for Manufacture of Concrete Blocks, Pipe, and Slabs for Walls (two copies)	May 1959	3272
PR-	Plant Requirements for Manufacture of Concrete Posts	October 1962	3272
	Plant Requirements for Manufacture of Abrasive Wheels	May 1959	3291
	Plant Requirements for Manufacture	July 1955	3291

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	Plant Requirements for Manufacture and of Asbestos-Cement Siding	May 1959	
	Plant Requirements for Manufacture of Asbestos-Cement Siding	February 1955	(13292 (1
	Requirements for a Plant to Manufact ture Cooking Utensils	, January 15, 1994	/332.1.★
	Plant Requirements to Set Up and Operate a Gray Iron Jobbing Foundry		
	Plant Requirements to Set Up and Operate a Gray Iron Jobbing Foundry		17:19
PR-92	Plant Requirements to Set Up and Operate a Copper Wire Drawing and Insulating Plant	January 1962	3351
PR-93	Plant Requirements for Manufacture of Aluminum Kitchenware	a statement the all an	<b>336</b> .1.
	Requirements for a Plant to Manu- facture Cooking Utensils	January 15, 1954	.3361.*
	Plant Requirements to Set Up and Operate a Brass Foundry	<b>May 1959</b> NGC 1959	33(2
PR 66	Plant Requirements for Manufacture of Brass Table Lemps	September 1.961.	3362
	Plant Requirements for Manufacture of Two-Burner Gas Plates	化和日本化学的公司 计	3 <sup>1</sup> +33
RS-8	Oil-Barrel Cupola	1951, polaatit sasiionas (Stantoa (2022), palateni (	
	Plant Requirements for Manufacture tool of Fuckets, Pails and Pans	м <b>Мау 1959</b> Станистики Станистики Станистики	.3 <sup>1</sup> 16.1.
	Plant Requirements for Munufacture	<b>™⊋y 1959</b>	35:45
	Plant Requirements for Manufacture of Plows	May 1959	3531.
	Plant Requirements to Set Up and Operate a Job Machine Shop	April 1959	3599
PR 89	Plant Requirements for Manufacture of Kerosche Farm Lanterns	Jamary 1962	36/12
			和行为

Title

PR 91. Plant Requirements for Manufacture January 1962 3692 of Automobile Batteries

Title	Date	SIC
Plant Requirements to Set Up and Operate a Fertilizer Mixing Plant	May 1959	3872
Plant Requirements for Manufacture of Paint and Varnish Brushes	May 1959	3991
Plant Requirements for Manufacture of Paint and Varnish Brushes	February 1955	3991
Tire Recapping, Capital Require- ments, Techniques, and Operations	August 1956	7534

Blacksmithing Practices

rs 6

Demonstration of Stabilized Mud Brick in Egyptian Village Housing Chemical Processing, Equipment, Techniques, and Operations

How to Start a New Factory or Shop August 1955

Plant Maintenance and Housekeeping

No.

U. S. Agency for International Development. TECHNICAL INQUIRY SER-VICE. 1958, 1959, 1960, 1961

VICC.	1900, 1909, 1900, 1901		
<u>No.</u>	Title	<u>Date</u>	SIC
IR 15586 PR	Ice Cream	May 1958	2024
IR 23683 PR	Sardine Canning	February 1960	2031
IR 16065 PR	Orange Juice	April 1958	2033*
IR 16384 PR	Unfermented Grape Juice	April 1958	2033
IR 23914 PR	Fig and Date Processing	March 1960	2034*
IR 23149 PR	Mayonnaise	May 1, 1959	2035
IR 16065 PR	Orange Juice	April 1958	2037*
IR 18082 PR	Wheat Milling	May 1958	2041
15639 PR &			
Suppl	Fish Meal	April 1958	2042
IR 24187 PR	Small Bread Bakeries	March, 1960	2051
IR 16865 PR	Carob Molasses	April 1958	2061
	Candy and Confectionery	Ápril 1958	2071*
IR 23914 PR	Fig and Date Processing	March 1960	2071*
IR 19268 PR	Salted Peanuts	May 1958	2071
	Candy and Confectionery	April 1958	2072*
IR 22756 PR	Brewers Flakes	March 1960	2082
IR 16065 PR	Orange Juice	April 1958	2087*
IR 23123 PR	Castor Oil	August 1959	2093
IR 23503 PR	Crushed Ice and Package Ice Cube Plant	January 1967	2097
IR 23724 PR	Cloth Bags for Agricultural Products	August 1959	2211*
IR 16874 PR	V-Belts	June 1958	2241
IR 26302 PR	Standard Sports Stockings, Men's Base- ball and Soccer Stockings	March 1961	2252
	Cloth Bags for Agricultural Products Dry Cleaning	August 1959 April 1958	2259* 7216

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\*More than one SIC number.

<u>No.</u>	Title	Date	SIC
IR 25326	Silk Screen Printing on Textiles	July 1960	2262
IR 16651 PR	Tire Cord Bonding	June 1958.	2296
IR 26895 PR	Ramie Decortication	March 1961	2295
IR 19649 PR	Wood Wastes	April 1958	2421
IR 19589 PR	Plywood	May 1958	2432
IR 19588 PR	Boxes and Shooks	April 1958	2441
IR 23215 PR	Newsprint and Stationery from Straw	January 1960	2621
JR 23525	Board Plant, Small Particle	June 1959	2631
IR 17699 PR	Paper Bags	May 1958	2643
IR 16881 PR	Furfural and a made and	June 1958	2818
IR 17879 PR		May 1958	2841
IR 25327 PR	Synthetic Detergent Powder	September 1960	2841
IR 19235 PR	Camelback	June 1958	3011
IR 23816 PR	Reclaimed Rubber	.0ctober 1960	3031
IR 23334 PR	Brake Linings and Clutch Discs	November, 1959	3069*
IR 22815 PR	Foam Rubber and Polyurethane Foam	October 1960	<b>3069</b> 🦉
IR 18301 PR	Rubber Cement	June 1958	3069
IR 17427 PR	Rubberized Fabric	May 1958	3069
IR 18488 PR	Men's Dress Shoes	April 1958	3141
IR 25906 PR	Unbreakable Watch Crystals	October 1960	3231
IR 16798 EP	Clay Sewer Pipe		3259
IR 16171	Clay Pipe		3259
IR 26426 PR	Ready-Mixed Concrete	March 1961	3272
IR 23219 PR	Plaster of Paris, Pottery Plaster and Plasterboard	August 1960	3275
TR 15139 PR & Suppl	Tungsten Carbides	April 1958	3291

No	Title	Date	<u>SIC</u>
IR 25245 PR	Asbestos-Cement Pipe	June 1960	3292
IR 25067 PR	Asbestos-Cement Siding	April 1960	<sup>22</sup> 3292
IR 23334 PR	Brake Linings and Clutch Discs	November 1959	3292*
IR 11122	Slag and Expanded Shale		<sup>4</sup> 3295
IR 23527 PR	Flexible Steel Conduit	August 7, 1959	3317
IR 23695 PR	Steel Mechanical Tubes	August 1959	3317
IR 25422 PR	Centrifugal Cast Iron Pipe	September 1960	3321
IR 23694 PR	Five Thousand Ton Steel Rolling Mill	August 1959	<sup>8</sup> 3323
IR 19734 PR	Recovery of Zinc	May 1958	3341 <sup>,77</sup>
IR 26072 PR	Small Brass Foundry	October 1960	<sup>*</sup> 3362 <sup>855</sup>
IR 23599	Agricultural Implements	August 1959	<sup>3</sup> 3423 <sup>303</sup>
IR 16615 PR	Primary Hardware	May 1958	3429
IR 16758 PR	Ornamental Ironwork	June 1958	3446
IR 16548 PR	Screw Machine Products	June 1958	3451
1R 16617 PR	Metal Spinning	June 1958	3461 <sup>24</sup>
IR 15700 PR	Porcelain Enamelware	May 1958	3461
IR 17359 PR	Wire Products	June 1958	3481
IR 24605	Automobile and Truck Leaf Springs and Mufflers	April 1960	3493
IR 23600 PR	Centrifugal Pumps and valves	November 1959	3561
IR 22416 PR	Electric Motors and Transformers	February 1960	3621
IR 25907 PR	Electrodes	October 1960	3623*
IR 25907 PR	Electrodes	October 1960	3624*
IR 19587 PR	Radios	June 1958	3651
IR 25907 PR	Electrodes	October 1960	3699*
IR 19242 PR	Bicycles	April 1958	3751

<u>Nc.</u>	Title	Date	SIC
IR 25908 PR	Specular Reflectors	October 1960	3831
IR 15373 PR	Surgical, Instruments	April 1958	3841
IR 16883 PR	Adhesive Tape	June 1958	3842
IR 19346 PR	Surgical Cotton	June 1958	3842
IR 19394 FR	Sensitized Papers	May 1958	3861.
IR 18371 PR	Souvenirs and Small Jewelry	May 1958	3961
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They contain basic information on prospects and market aspects, production rates, capital requirements, materials and supplies, utilities, manpower operating costs and sales revenues. Work-flow diagrams and, in some instances, machinery layouts are included along with the references to sources of technical information, professional services, patents, materials and equipment.

'Profile' data are on the basis of operating experiences and costs in the United States. These must be related to local production experiences and costs resulting from the wide variances among the countries."

INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C. NUMBER	INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C Numbe
Major Group 01 – Commercial Farms		Canned Hominy 1.P. 67330	.2033
Poultry Farm (Egg Production) I.P. 67259	0133	Canned Okra I.P. 67331	2033
Poultry Farm (Broiler Production) I.P. 67374	0133	Canned Sweet Potatoes I.P. 67332	2033
		Canned Strawberries	2033
Major Group 07 Agricultural Services		Canned Sliced Apples	2033
Major Group 07 – Agricultural Services		Canned Blueberries 1.P. 67335	2033
and Hunting and		Canned Apricots I.P. 67336	2033
Trapping Ramie Decortication I.P. 66051	0719	Canned Cream Style Corn I.P. 67337	2033
	0/19	Canned Dry Beans I.P. 67338	2033
		Canned Spinach	2033
Major Group 13 – Crude Petroleum and		Canned Wax Beans	2033
Natural Gas		Canned Blackeyed Peas 1.P. 67341	2033
Liquefied Petroleum Gas			2033
(Manufactured) 1.P. 67324	1321	Canned Tomatoes I.P. 67342	
		Canned Cauliflower I.P. 67351	2033
Major Group 20 - Food and Kindred		Canned Pumpkin I.P. 67352	2033
the second se	14 j. j.	Canned Whole Kernel Corn I.P. 67353	2033
Products	0000	Canned Green Beans I.P. 67354	2033
Food Processing (General) I.P. 67388	2000	Canned Onions I.P. 67355	2033
Meat Processing	2011	Canned Apple Sauce	2033
Slaughtering and Meat Packing I.P. 66059	2011	Canned Pears I.P. 67357	2033
Meat Canning Plant I.P. 67292	2011	Canned Red Raspberries 1.P. 67364	2033
Smoked Meat I.P. 66060	2013	Canned Cranberries I.P. 67381	2033
Canned Beef I.P. 66231	2013	Canned Green Peas I.P. 67382	2033
Bottled Milk I.P. 67319	2026	Canned Pineapple, Sliced I.P. 67383	2033
Fish, Dried and Salted I.P. 66008	2031	Canned Lima Beans 1.P. 67384	2033
Canned Tuna Fish I.P. 66232	2031	Canned Squash I.P. 67386	2033
Canned Fish I.P. 67304	2031	Canned Plums 1.P. 67387	2033
Canned Sardines I.P. 67396	2031	Canned Carrots I.P. 67389	2033
Canned Cream of Celery Soup, Ready		Canned Kale Greens 1.P. 67390	2033
to Serve 1.P. 67343	2032	Canned Broccoli I.P. 67391	2033
Canned Cream of Asparagus Soup,		Canned Tomato Juice I.P. 67392	2033
Ready to Serve I.P. 67344	2032	Salted Peanuts I.P. 66013	2034
Canned Tomato Soup, Ready to Serve I.P. 67365	2032	Potato Flakes I.P. 66167	2034
Canned Pea Soup, Ready to Serve I.P. 67366	2032	Fig and Date Processing I.P. 67261	2034
Canned Pork and Beans I.P. 67367	2032	Raisins, Dehydrated Grapes I.P. 67294	2034
Canned Bean Soup, Ready to Serve I.P. 67393	2032	Canned Dehydrated Onions I.P. 67312	2034
Canned Cream of Corn Soup,		Mayonnaise I.P. 66087	2035
Ready to Serve I.P. 67394	2032	Quick-Frozen Fish I.P. 66014	2036
Canned Cream of Mushroom Soup,		Prawn Processing Plant I.P. 67276	2036
Ready to Serve 1.P. 67395	2032	Processed Seafood I.P. 67311	2036
Unfermented Grape Juice I.P. 66009	2033	Wheat Flour 1.P. 66026	2041
Orange Juice, Chilled,		Glucose from Cassava Starch I.P. 67313	2041
in Waxed Containers I.P. 66012	2033	Starch Ail and Food from Sorthum	
Citrus Fruit-Whole Sections.		Grain I.P. 67317	2041
Canned I.P. 66061	2033	Animal Feed Pellets 1.P. 66015	2042
Orange Juice, Canned I.P. 66090	2033	Cattle Feed from Manioc Pulp 1.P. 67305	2042
Orange Juice Concentrate I.P. 66091	2033	Rice	2042
Vegetable Canning (Commercial) I.P. 66223	2033	Rice Bran Oil and Bran Meal I.P. 67363	2044
Vegetable Canning (Cooperative) I.P. 66224	2033		2044
Canned Cherries I.P. 67326	2033	Pearl Starch I.P. 67375 Bakery	2048
Canned Asparagus I.P. 67327	2033	Bakery I.P. 66028 Biscuits and Crackers I.P. 66011	
Canned Beets I.P. 67328	2033	Raw Sugar I.P. 66029	2052
Canned Peaches I.P. 67329	2033		2061
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Candy and Confectionery 1.P. 6736	58 2071	Men's Work Pants 1.P. 66052	2328
Chocolate Dipped Products I.P. 6737	2071	Men's Work Shirts I.P. 66062	2328
Glazed Fruit and Fruit Peel I.P. 6738		Ladies' Cotton Broadcloth Dresses. I.P. 67267 Women's and Misses' Cotton Gingham	2335
Assorted Nuts, Processed and	85 2071	Dresses 1.P. 67397	2335
Packaged I.P. 6738		Women's and Misses' Suits I.P. 67369	2337
Cocoa Butter 1.P. 6720		Women's and misses suits I.P. 67398	2339
Brewers Flakes I.P. 672	93 2082	Nurses' Washable Service Apparel I.P. 67398	2341 - 232
Carbonated Beverages I.P. 660	01 2086	Pajamas, Cotton I.P. 67279	2341 - 232
Vanilla Extract I.P. 660	95 2087	Slips, Women's, Misses', Children's . 1.P. 67378	2341
Soybean Oil and Meal 1.P. 672	78 2092	Cotton Dresses I.P. 66037	
Castor Oil and Meal I.P. 672	69 2093	Work Gloves I.P. 66024	2381
Fish Oil and Meal I.P. 660	07 2095	Gloves, Vinyl Treated Fabric I.P. 67273	2381
Fish Oil and Fish Meal Plant - Evap-	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Gloves, Plastic Fronts, Canvas	
oration Process (20 Tons) 1.P. 673	18 2095	Backs I.P. 67345	2381
Fish Oil and Fish Meal Plant - Evap-		Rathrohas	2384
oration Process (40 Tons) I.P. 673		Slip Covers for Furniture I.P. 67301	2292
Olive Oil, Crude 1.P. 660		Cloth Bags for Agricultural	S. 18
Crushed Ice and Ice Cubes,		Products I.P. 66155	2393,
Packaged 1.P. 660	30 2097	Major Group 24 - Lumber and Wood Products	
Block Ice 1.P. 660	077 2097	Except Furniture	المراجع والمراجع
Potato Chips I.P. 673	2099	Planing Mill	2421
			2421
Major Group 22 - Textile Mill		Rough Sawing of Logs I.P. 66064	2421.
Products		Portable Sawmill I.P. 67307	2426
Cotton Shirting I.P. 660	2211	Hardwood Parquet Flooring I.P. 66038	2426
	132 2211	Dimension Hardwood I.P. 67325	
Nulon Hosion	UNK ZZD1	Sash and Door Plant I.P. 66022	2431
Men's Socks	017 2252	Flush Doors I.P. 66039	2431
Stretch Socks for Men and Children I.P. 67	251 2252	Plywood I.P. 66040	2432
Standard Sports Stockings I.P. 67	257 2252	Walnut Veneer I.P. 67295	2432
Silk Screen Printing	동안에 가지 않는 것 같아요.	Beverage Boxes I.P. 66076	2441
on Textiles 1.P. 66	018 2262	Boxes and Shooks I.P. 66078	2441
Hooked Puge	019 2279	Crates, Baskets and Hampers I.P. 66084	2442
Hooked Rugs I.P. 66 Cotton Crochet and		Barrels I.P. 66065	2445
Knitting Yarn I.P. 66	033 2281	Crepsoted Wood Products I.P. 67321	2491
Cotton Yam	236 2281	Step and Extension Ladders I.P. 66020	c 2499
	238 2281	Cork Products I.P. 66021	2499
Cotton Yam (Small Plant) I.P. 66		Particle Board I.P. 66041	2499
Woolen Yarn I.P. 66	035 2283	Wooden Ice Cream Spoons and Sticks. I.P. 66042	2499
Worsted Yam I.P. 60	100 2203	Wooden Shoe Lasts	2499
Wool Scouring	100 2297 2290	Costumers, Lamps and Picture	
Wooten rainWorsted YarnI.P. 66Wool ScouringJute YarnI.P. 66	036 2299	Frames	2499
Burlap Cloth from Jute I.P. 67	358 2299	Wood Fiber Souvenirs	2499
		Toilet Seuts and Lids I.P. 67252	2499
Major Group 23 - Apparel and Other Finished		Wooden Handles	2499
Products Made From Fabrics and Similar Materials			
Men's and Youths' Suits I.P. 67	2311	Major Group 25 - Furniture and Fixtures	0711
Men's Dress Shirts I.P. 66		Baby Beds, Pens, and Bassinets I.P. 66010	2511
Pajamas, Cotton 1.P. 67			2511
Men's Wash and Wear Shirts 1.P. 67	7347 2321	Kitchen Cabinets I.P. 66086	2511
Mells Wash and Weat Shirts I.P. C.		Wood Tables and Chairs I.P. 66099	2511
Men's Sport Shirts		Bookcases, Corner Cabinets and Manual And	Set 1 Miles
Men's Underwear 1.P. 66		Secretaries 1.P. 67258	2511
Men's Wash and Wear Pants 1.P. 67	LUU LJLI	·····································	****************

INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C. NUMBER	INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C. Number
Major Group 25 – (Cont'd)		Dry Ice I.P. 66107	
Wooden Wardrobes I.P. 67262	2511	Orygon and Applulane Detiled LD cropy	2813
Bentwood Chairs I.P. 67264	2511	Oxygen and Acetylene Bottled I.P. 67287	2813
Coffee Tables, End Tables and Bed		Salicylic Acid I.P. 66119	2818
Stands I.P. 67266	9511	Carbide I.P. 66233	2819
Lawn Furniture	2511	Sulfuric Acid I.P. 66234	2819
Lawn Furniture	2511	Pharmaceutical Tablets and Pills I.P. 66116	2834
Upholstered Occasional Chairs I.P. 66044	2512	Synthetic Detergent I.P. 66002	2841
Overstuffed Furniture I.P. 66054	2512	Laundry and Milled Toilet Soap I.P. 66110	2841
Rockers, Wood, Upholstered I.P. 67400	2512	Insecticides I.P. 66057	
Foam Rubber and Polyurethane		Paint LD control	2842
Foam I.P. 66045	2515	PaintI.P. 66114	2851
Cotton Roll-Edged Mattresses I.P. 66083	2515	Tanning Extracts I.P. 66124	2861
Innerspring Mattresses and Box	2313	Superphosphate and Diammonium I.P. 66123	2871
		Superphosphates I.P. 66149	2871
Springs I.P. 67254	2515	Fertilizer Mixing I.P. 66066	2872
Reed and Rattan Fumiture I.P. 66094	2519	Castor Oil Hydrogenated I.P. 66104	(2893.)
Office Chairs I.P. 66089	2521	Oil of Cloves I.P. 66113	2899
Metal Filing Cabinets I.P. 66046	2522	Sea Salt I.P. 66120	2899
Folding Chairs I.P. 66047	2531	Lemon Oil 1.P. 66218	
Church Furniture I.P. 67272	2531	Saccharin I.P. 66222	2899
School Fumiture I.P. 67282	2531	Gaccinaria	2899
Metal Lockers 1.P. 67298	2542		
Venetian Blinds		Major Group 29– Petroleum Refining and	
Restaurant and Cafeteria Furniture I.P. 67360	2591	Related Industries	
Restautant and Careteria Fulliture I.F. 6/369	. 2599 ,	Asphalt Floor Tiles I.P. 66067	2951
		Lubricating Oil Reclamation I.P. 66188	2992
Major Group 26 – Paper and Allied Products		Asphalt Paving Material I.P. 66203	2951
Pulp from Bagasse for Wallboard I.P. 66092	2611	Major Group 30 - Rubber and Miscellaneous	
Pulp from Scrap Wood for Wallboard I.P. 66093	2611	Plastics Products	
Wood Pulp for Coarse Wrapping			0011
Paper I.P. 66097	2611	Camelback I.P. 66178	3011
Wood Pulp for Wallboard 1.P. 66098	2611	Automobile Tires I.P. 66229	3011
Wranning Danar Coares (C 000 Tana		Automobile Tires and Tubes I.P. 66230	3011
Annually) I.P. 66079	ARC/201	Bicycle Tires and Innertubes I.P. 67350	3011
	2621	Rubber-Soled Fabric Shoes I.P. 66068	3021
Wrapping Paper, Coarse (12,500	2 A 375	Reclaimed Rubber Sheets I.P. 66193	3031
Tons Annually) I.P. 66080	2621	Rubber Floor Tiles I.P. 66069	3069
Envelopes I.P., 66055	2642	Rubber Cement I.P. 66118	3069
Paper Bags I.P. 66004	7543	Rubberized Sheeting I.P. 66195	3069
Cardboard Boxes and	Alter	Rubber Soles and Heels	· · · · · ·
Paper Products 1.P. 66056	2651	Plastic Moldings I.P. 66070	3069
Corrugated Fiber Boxes 1.P. 66048	265 ]	Vinut Floor Tiles	3079
Corrugated Paper Cartons	2653	Vinyl Floor Tiles I.P. 66071	3079
Fiberboard	2661	Unbreakable Watch Crystals I.P. 66199	3079
Wallboard from Bagasse I.P. 66125	A 1 4 4		
	2661	Major Group 31 – Leather and Leather Products	
lajor Group 27 – Printing, Publishing, and	[	Leather Tanning I.P. 66072	2111
Allied Industries		Small Leather Tannery I.P. 66122	3111
Textbook Publishing I.P. 66248	2731	Men's Drass Shop	3111
Small Printing Shop (Books) I.P. 66005	2732	Men's Dress Shoes I.P. 66073	3141
Book Bindery		Ladies' Dress Shoes I.P. 66109	3141
	2732	Men's Work Shoes I.P. 66111	3141
Job Printing I.P. 66003	2751	Women's Shoes I.P. 66250	3141
	i.	Brief Cases, Leather I.P. 67275	3161,
lajor Group 28 – Chemicals and Allied Products		Indian Ilanda a sul Issue	91 M
Caustic Soda I.P. 66050	2812	Consisting States	3171 - 3172

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INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C. Number	INDUSTRY PROFILE TITLES BY STANDARD INDUSTRIAL CLASSI- FICATION (S.I.C.) GROUP	S.I.C. NUMBER
Major Group 32 - Stone, Clay, and Glass	e de la composición d La composición de la c		
Products		Steel Billets I.P. 66245	3312
Sheet Glass 1.P. 66121	0011	Manganese I.P. 66189	3313
Glass Sodal ime Window 5 500	3211	Wire Nails I.P. 66175	-3315
Glass, Soda-Lime Window, 5,500		Sheet Steel, Hot Rolled I.P. 67316	3316
Tons Annually I.P. 66239	3211	Flexible Steel Conduit I.P. 66184	3317
Glass, Soda-Lime Window, 7,500	8° 1	Galvanized Steel Pipe I.P. 66185	3317
Tons Annually I.P. 66240	3211	Steel Mechanical Tubes I.P. 66198	3317
Glass, Soda-Lime Window, 10,500	and the second s	Welded Pipe 1.P. 66225	3317
Tons Annually I.P. 66241	3211	Centrifugal Cast Iron Pipe I.P. 66179	3321
Optical or Precision Glass I.P. 67280	3211	Gray Iron Jobbing Foundry I.P. 66237	3321
Glass Containers I.P. 66075	3221	Cast Iron and Soil Pipe	1. S. L. M. L. S. L. M.
Reinforced Concrete Construction		trop Cooking Ibonoile	3321
Products I.P. 67271	3227	Iron Cooking Utensils I.P. 66187	3322
Pharmaceutical Glass (Complete) I.P. 66115	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Copper Tubing 1.P. 66105	3351
Hand Blown Glass and	3229	Copper Wire I.P. 66106	3351
	1.22.23	Aluminum Die Castings I.P. 66176	3361
Fine Cast Crystal I.P. 66186	3229	Aluminum Foundry I.P. 67308	3361
Mirror Manufacturing and Resilvering I.P. 66112		Brass Foundry I.P. 66101	3362
Resilvering I.P. 66112	3231	Non-Ferrous Metals Foundry I.P. 67346	3362
Pharmaceutical Glass from		Zinc Die Castings I.P. 67372	3369
Purchased Tubing I.P. 66140	3231		6066
Cut Glass I.P. 66181 Cement I.P. 66133	3231		
Cement I.P. 66133	3241	Major Crown 24 - Entrineted Match David	
Building Bricks I.P. 66132	3251	Major Group 34 - Fabricated Metal Products,	
Refractory Bricks I.P. 66194		Except Ordnance, Machin-	
Tile Roofing, Clay	3255	ery, and Transportation	
Porcelain Enemal Coversia Wards to D. Salas	3259	Equipment	
Porcelain Enamel Ceramic Ware I.P. 66192	3261	Buckets, Pails and Pans 1.P. 66103	3411
Ceramic Dinnerware I.P. 66134	3262	Farm Hand Tools I.P. 66108	3423
Kitchen Earthenware I.P. 66136	3269	Hand Tools	3423
Small Ceramics Shop I.P. 66145	3269	Building Hardware I.P. 66102	3429
Pottery, Earthenware I.P. 67379	3269	Hardware, Primary I.P. 66117	
Pottery, Earthenware         I.P. 67379           Concrete Blocks         I.P. 66156           Concrete Slabs         I.P. 66158	3271	Solit Gib-Head Kove and	3429
Concrete Slabs I.P. 66158	3271	Split Gib-Head Keys, and	7 2 <b>1</b> 4 1
Concrete Cinder Blocks I.P. 66180	3271	Taper Pins I.P. 66146	3429
Concrete Pipe I.P. 66157	3272	Sanitary Ware I.P. 66144	3431
Concrete Posts	2	Two Burner Gas Plates I.P. 66150	: 3433
Dry Mixture Concrete in Bags I.P. 66211	3272	Heaters, Kerosene Asbestos Type I.P. 66215	3433
Pordy Mixed Concrete in Days I.P. 60211	3273	Washtubs and Pails I.P. 67296	3441
Ready-Mixed Concrete in Bags I.P. 67286	3273	Aluminum Storm Windows and Doors. 1.P. 66202	3442
Plaster of Paris, Pottery Plaster and	$\frac{1}{2}$	Storage Bins I.P. 66148	3444
Plasterboard I.P. 66191	3275	Aluminum Architectural Specialties. I.P. 66128	3449
Wallboard from Gypsum and Fiber I.P. 67359	3275	Ornamental Ironwork I.P. 66139	3449
Marble Cutting and Polishing I.P. 66190	3281	Aluminum Cooking Utensils I.P. 66129	3461
Abrasive Wheels I.P. 66126	3291	Metal Spinning I.P. 66137	
Sandpaper I.P. 66197	3291	Stainless Steel Utensils I.P. 66147	3461
Asbestos-Cement Siding I.P. 66130	3292		3461
Asbestos-Cement Pipe I.P. 66177	3292	Kitchen Equipment I.P. 66217	3461
Chalk Whiting I.P. 66207		Plating I.P. 66141	3471
Mineral Wool	3295	Electroplating I.P. 66246	3471
High Alumino Defrectory Drick and	3296	Plating of Automobile Parts I.P. 67284	3471
High Alumina Refractory Brick and		Enameled Plates, Teapots and	
Cement I.P. 67314	3297	Kettles I.P. 66213	3479
ajor Group 33 – Primary Metal	1	Coil Springs I.P. 66135	3481
Industries		Chain-Link Fencing I.P. 66206	3481
Steel Bars and Shapes, 15,000		Mechanical Springs I.P. 67277	3481
Tons Annually I.P. 66243	3312	Grocery Carts I.P. 67371	
Steel Bars and Shapes, 30,000		Automobile and Truck Loss Sources 1.17. 0/5/1	3481
		Automobile and Truck Leaf Springs I.P. 66131 Centrifugal Pumps and Valves I.P. 66205	3493
Tons Annually I.P. 66244	3312		3494 - 3561

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	G NUMBER		I.C. Ber
Major Group 35 – Machinery, Except			14
Electrical			/14
Agricultural Implements I.P. 66127	3522	Shock Absorbers, Automobile and	
Plows I.P. 66142		Truck I.P. 67255 37	14
Rice Paddy Cultivators I.P. 66143		F ycles I.P. 66153 37	
10-Horsepower Utility Riding			
Tractors 1.P. 67299	3522	Major Group 38 - Professional, Scientific	
Power J awn Mower I.P. 67300		and Controlling Instruments;	
Conveyors and Portable Elevators I.P. 66209	3535	Photographic and Optical	
Industrial Hand Trucks and Skids I.P. 67256		Goods: Watches and Clocks	
Jigs and Fixtures I.P. 67310		Surgical Instruments I.P. 66172 38	41
Centrifugal Pumps and Valves I.P. 66205	3561 - 3491	Surgical Cotton 1.P. 66016	
Shallow Well Hand Pumps I.P. 66169	3561	Adhesive Tape	7
Pumps, Small Hand and Power		Artificial Teeth I.P. 66226 38	•
Driven I.P. 66221	3561	Plastic Eyeglass Frames I.P. 66242 38	4 / <b>1</b>
Compressors, ¼ Horsepower	la defense De seutro e		-
Sealed Unit I.P. 66235	3561	Major Group 39 — Miscellaneous Manu-	
Centrifugal Blowers I.P. 66216	3564		
Foundry Pattern Making I.P. 67309	3565	facturing Industries Gold Jewelry 1.P. 66161 391	11
Refrigerated Walk-In Coolers I.P. 66168	3585	Souvenirs and Small Jewelry I.P. 67281 391	
Air Conditions and Refrigerators I.P. 66201	3585 - 3632	Lead Pencils I.P. 66164 395	· • - `
Cold Storage for Meat and Poultry I.P. 66208	3585	Artists' Oil Paints I.P. 66227 395	
Water Filters, Domestic I.P. 66200	3589	Shell Buttons 1.P. 66170 396	
Machine Shop, Job I.P. 66162	3591	Straight Pins 1.P. 66249 396	
		Brooms I.P. 66154 398	
lajor Group 36 – Electrical Machinery,		Paint and Varnish Brushes I.P. 66166 398	
Equipment, and Supplies		Book Matches 398	3
Electric Motors, 1/6 to 10 Horse-		Neon Signs	3
Power I.P. 66160	3621		
Electrodes for Neon Lights I.P. 66212	3624	Major Group 49 - Electric, Gas and	
Cooking and Heating Stoves I.P. 66210	3631	Sanitary Services	Qř.
Portable Cooking Stoves I.P. 66220	3631	Small Community Electric System I.P. 66171 491	1
Air Conditioners and Refrigerators I.P. 66201	3632 - 3585		
Dryers, Laundry, Household 1.P. 67263	3633	Major Group 50 – Wholesale Trade	
Washing Machines, Household I.P. 67322	3633	Laundry Bags 1.P. 67306 508	<b>7</b> 4
Electric Fans, 12-Inch Oscillating I.P. 66182	3634		
Electric Space Heaters I.P. 66183	36.4	Major Group 59 - Retail Trade - Miscella	
Light Bulb Assembly Plant I.P. 67399	3641	neous Retail Stores	
Specular Reflectors I.P. 66247	3642	Liquefied Petroleum Gas	
Brass Table Lamps I.P. 67302	3642	(Distribution)	3
Kerosene Lanterns I.P. 67349	3642	Holet Crown 72 December Continue	
Electric Outlets, Switches and Fuse Confidence (Confidence)		Major Group 72 – Personal Services	•
Boxes I.P. 67290	3644	Laundry I.P. 66163 721 Self-Service Laundry I.P. 67297 721	4.5.
Radio Receiving Sets I.P. 67274	3651	Self-Service Laundry I.P. 67297 721	1.
Automobile Batteries I.P. 66152	3691	Dry Cleaning	Ō
lashlight and Radio Batteries I.P. 67320	3692	Dry Cleaning, Self-Selvice, Coin	
Aotor Starters 1.P. 66165	3694	Operated	•
ajor Group <u>37</u> – Transportation		Major Group 75 – Automobile Repair,	
Equipment	a	Automobile Services	
Vood Stake Truck Bodies 1.P. 67373	3713	and Garages	
Fruck Mufflers I.P. 67174	3714	Here State and the State Strate Strate State Stat State State S	l.

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