

Dhananjayrao Gadgil Library



GIPE-PUNE-000340

RUSSELL SAGE FOUNDATION PUBLICATIONS

THE PITTSBURGH SURVEY. Findings in six volumes, edited by Paul U. Kellogg. 8vo. Fully illustrated with photos by Hine and drawings by Joseph Stella. Maps, charts, and tables. Price per set, \$9 net; per volume, \$1.50 net.

WOMEN AND THE TRADES. By Elizabeth Beardaley Butler. Second edition. Price, postpaid, \$1.72.

WORK-ACCIDENTS AND THE LAW. By Crystal Eastman. Price, postpaid, \$1.75.

THE STEEL WORKERS. By John A. Fitch, New York Dept. of Labor. Price, postpaid, \$1.71.

HOMESTEAD; THE HOUSEHOLDS OF A MILL TOWN. By Margaret F. Byington. Price, postpaid, \$1.70.

THE PITTSBURGH DISTRICT. Symposium by John R. Commons, Robert A. Woods, Florence Kelley, Charles Mulford Robinson and others. (In press.)

PITTSBURGH; THE GIST OF THE SURVEY. By Paul U. Kellogg. (In preparation.)

CORRECTION AND PREVENTION. Four volumes prepared for the Eighth International Prison Congress. Edited by Charles Richmond Henderson, Ph.D. 8vo. Price per set, express prepaid, \$10; per volume, \$2.50 net.

PRISON REFORM. By Chas. R. Henderson, F. B. Sanborn, F. H. Wines and Others. And **CRIMINAL LAW IN THE UNITED STATES.** By Eugene Smith. Illustrated. 320 pages. Price, postpaid, \$2.66.

PENAL AND REFORMATORY INSTITUTIONS. By Sixteen Leading Authorities. Illustrated. 346 pages. Price, postpaid, \$2.70.

PREVENTIVE AGENCIES AND METHODS. By Charles Richmond Henderson, Ph.D. 440 pages. Price, postpaid, \$2.68.

PREVENTIVE TREATMENT OF NEGLECTED CHILDREN. By Hastings H. Hart, LL.D. With special papers by leading authorities. Illustrated. 420 pages. Price, postpaid, \$2.70.

JUVENILE COURTS AND PROBATION.

JUVENILE COURT LAWS IN THE UNITED STATES SUMMARIZED. Edited by Hastings H. Hart, LL.D. 8vo. 160 pages. Price, postpaid, \$1.60. (See also, Other Volumes in Preparation.)

TWO PRACTICAL BOOKS ON HOUSING.

HOUSING REFORM. A Handbook for Use in American Cities. By Lawrence Veiller. 12mo. 220 pages. 5 schedules. Second edition. Price, postpaid, \$1.25.

A MODEL TENEMENT HOUSE LAW. Giving such a law section by section, with comment. By Lawrence Veiller. 130 pages. Price, postpaid, \$1.25. Also, a Working Edition, printed on one side of the paper, unbound but wire-stitched. Price, postpaid, \$1.25.

WORKINGMEN'S INSURANCE IN EUROPE. By Lee K. Frankel and Miles M. Dawson, with the co-operation of Louis I. Dublin. Part I. Industrial Accidents. Part II. Sickness and Death. Part III. Invalidity and Old Age. Part IV. Unemployment. Part V. Complete Insurance Systems. 8vo. 450 pages. 145 tables. Bibliography. Second edition. Price, postpaid, \$2.70.

ONE THOUSAND HOMELESS MEN. A Study of Original Records. By Alice Willard Solenberger. 12mo. 398 pages. 50 tables. Price, postpaid, \$1.25.

OVER

RUSSELL SAGE FOUNDATION PUBLICATIONS

FOUR BOOKS ON SOCIALIZED SCHOOLS.

- WIDER USE OF THE SCHOOL PLANT.** By Clarence Arthur Perry. Illustrated. 12mo. 404 pages. Second edition. Price, postpaid, \$1.25.
AMONG SCHOOL GARDENS. By M. Louise Greene, M.Pd., Ph.D. Illustrated. 12mo. 380 pages. Second edition. Price, postpaid, \$1.25.
LAGGARDS IN OUR SCHOOLS. A Study of Retardation and Elimination. By Leonard P. Ayres, Ph.D. 8vo. 252 pages. Third Edition. Price, postpaid, \$1.50.
MEDICAL INSPECTION OF SCHOOLS. By Luther Halsey Gulick, M.D., and Leonard P. Ayres. 8vo. 286 pages. Third edition. Price, postpaid, \$1.00.

THE ALMSHOUSE: Construction and Management. By Alexander Johnson. Illustrated. 12mo. 274 pages. Price, postpaid, \$1.25.

SALESWOMEN IN MERCANTILE STORES. By Elizabeth Beardsley Butler. Illustrated. 12mo. 236 pages. Price, postpaid, \$1.00.

CIVIC BIBLIOGRAPHY FOR GREATER NEW YORK. Edited by James Bronson Reynolds, for the New York Research Council. 8vo. 312 pages. Price, postpaid, \$1.62.

HANDBOOK OF SETTLEMENTS. Edited by Robert A. Woods and Albert J. Kennedy. 8vo. 342 pages. Price, Cloth, postpaid, \$1.64. Paper, postpaid, \$0.85.

THE STANDARD OF LIVING AMONG WORKINGMEN'S FAMILIES IN NEW YORK CITY. By Robert Coit Chapin, Ph.D. 8vo. 388 pages. 131 tables. 16 diagrams. Price, postpaid, \$2.00.

REPORT ON THE DESIRABILITY OF ESTABLISHING AN EMPLOYMENT BUREAU IN THE CITY OF NEW YORK. By Edward T. Devine, Ph.D., LL.D. 8vo. 238 pages. Paper. Price, postpaid, \$1.00.

OTHER VOLUMES IN PREPARATION.

THE DELINQUENT CHILD AND THE HOME. By Sophonisba P. Breckinridge and Edith Abbott.

LOCAL OPTION IN MASSACHUSETTS. By Amy F. Acton.

FIVE SPECIAL BOOKS recently published by Charities Publication Committee, which fill spaces hitherto unoccupied on library shelves.

- THE SPIRIT OF SOCIAL WORK.** By Edward T. Devine. Nine Addresses. 12mo. 244 pages. Price, postpaid, \$1.00.
OUR SLAVIC FELLOW CITIZENS. By Emily Greene Balch, of the Faculty of Wellesley College. Part I. Slavic Emigration at Its Source. Part II. Slavic Immigrants in the United States. 8vo. 650 pages. 48 full-page illustrations. Price, postpaid, \$2.50.
HOW TWO HUNDRED CHILDREN LIVE AND LEARN. By Rudolph R. Reeder, Superintendent New York Orphan Asylum at Hastings-on-Hudson. 12mo. 248 pages. Illustrated. Second edition. Price, postpaid, \$1.25.
VISITING NURSING IN THE UNITED STATES. By Ysabella Waters of the Henry Street (Nurses') Settlement, New York. 8vo. 367 pages. Price, postpaid, \$1.25.
SOCIAL FORCES. By Edward T. Devine, Editor The Survey, General Secretary New York Charity Organization Society, Schiff Professor of Social Economy, Columbia University. 12mo. 226 pages. Second edition. Price, postpaid, \$1.00.

CHARITIES PUBLICATION COMMITTEE
PUBLISHERS FOR THE RUSSELL SAGE FOUNDATION
105 EAST 22d STREET, NEW YORK



Photo by Hine.

GLASS DECORATORS

By polishing the glass on a revolving wheel the decorator brings out the brilliancy of the ruby color

RUSSELL SAGE
FOUNDATION

WOMEN AND THE
TRADES

PITTSBURGH, 1907-1908

By

ELIZABETH BEARDSLEY BUTLER
FORMER SECRETARY, CONSUMERS LEAGUE OF NEW JERSEY

THE PITTSBURGH SURVEY
FINDINGS IN SIX VOLUMES

EDITED BY

PAUL UNDERWOOD KELLOGG

NEW YORK
CHARITIES PUBLICATION
COMMITTEE . . . MCMXI

Copyright, 1909, by
THE RUSSELL SAGE FOUNDATION

Printed December, 1909
Reprinted November, 1911

X: 915.7312CP

E1

340

PRESS OF WM. F. FELL CO.,
PHILADELPHIA

LEGAL RESTRICTION OF WORKING HOURS

The Illinois statute (Acts of 1909, p. 212, sec. 1) makes it illegal for any woman to be employed more than 10 hours per day in any mechanical establishment, factory or laundry.

The Michigan statute (Acts of 1909, no. 285, sec. 9) makes it illegal for any woman to be employed in any place where the manufacture of any kind of goods is carried on, or in any laundry or mercantile establishment, for longer than an average of 9 hours in any day, nor for more than 54 hours per week.

The Missouri statute (Acts of 1909, p. 616) makes it illegal for any woman to be employed in any manufacturing or mercantile establishment, laundry or restaurant in any city of over 5000 inhabitants for more than 54 hours per week.

BIBLIOGRAPHY

BIBLIOGRAPHY.

1. GENERAL

- Taylor, R. Whateley Cooke:** *The Modern Factory System*, Chap. 1, 2. London, Kegan Paul, French, Trübner and Company, 1891.
- Devine, Edward T.:** *Economic Function of Women*. Amer. Acad. of Polit. and Soc. Science, Publication No. 133.
- Smart, Wm.:** *Studies in Economics*. London, Macmillan Company, 1895.
- Pearson, Karl:** *Chances of Death and other Studies in Evolution*, Chap. VII, *Woman and Labour*; Chap. IX, *Woman as Witch*. London, E. Arnold, 1897.

2. IN DIFFERENT COUNTRIES

a. *England*

- Abbott, Edith:** *Municipal Employment of Unemployed Women in London*. *Jour. Pol. Econ.*, 15: 513.
- Women Workers:** Papers read at the Manchester Conferences (Oct. 22-25, 1907) by Nat. Union of Women Workers of Gt. Brit. and Ire.
- Booth, Charles:** *Life and Labour of the People of London*, Vol. IV, pp. 256-326. *Women's Work*. London, Macmillan Company, 1902.
- Cadbury, Matheson, Shann:** *Women's Work and Wages*. Chicago, The University of Chicago Press, 1907.
- Collet, Clara E.:** *Women's Work in Leeds*. *Economic Journal*, 1: 460.

b. *Belgium*

- Julin, Armand:** *Le travail des femmes belges dans la grande et la petite industrie*. *La Réforme Sociale*, 16 Septembre, 1901.

BIBLIOGRAPHY

Julin, Armand: La production décentralisée en Belgique. La Réforme Sociale, 16 Mai, 1905.

c. *France*

Gonnard, René: La femme dans l'industrie. Paris, Armand Colin, 1906.

Julin, Armand: Les industries à domicile. La Réforme Sociale, 16 août, 1902.

Leroy-Beaulieu, Paul: Le travail des femmes au XIX siècle. Paris, Charpentier et Cie., 1873.

Négre, Mlle. A.: Le travail à domicile. Révue du Christianisme Social, 15 Avril, 1907.

Rochebillard, M. L.: Le travail de la femme à Lyon. La Réforme Sociale, 1er juillet, 1901.

Vovard, André: La société pour l'assistance paternelle aux enfants employés dans les industries des fleurs et des plumes. La Réforme Sociale, 1er Avril, 1907.

d. *Germany*

Praktische Ratschlaege zur Berufswahl. Bearbeitet von Josephine Levy-Rathenau und Lisbeth Wilbrandt. W. Nider, Berlin, 1906.

Sombart, Werner: Der Moderne Kapitalismus. Siebenter Abschnitt: Handwerk und Handwerker in der Gegenwart.

e. *United States*

Abbott, Edith: Harriet Martineau and the Employment of Women in 1836. Jour. Pol. Econ., 14:614.

Abbott, Edith: Industrial Employment of Women in the United States. Jour. Pol. Econ., 14:461.

Abbott, Edith; Breckinridge, S. P. Employment of Women in Industries. Twelfth Census Statistics. Jour. Pol. Econ., 14:15.

Adams, Jessie B.: The Working Girl from the Elementary School in New York. Charities and The Commons, Feb. 22, 1908.

BIBLIOGRAPHY

- Lepelletier, F.:** Le travail des femmes aux États Unis. La Réforme Sociale, 1er decembre, 1901.
- Mies, Frank P.:** Statutory Regulation of Women's Employment; Codification of Statutes. Jour. Pol. Econ., 14: 119.
- Odencrantz, Louise C.:** The Irregularity of Employment of Women Factory Workers. The Survey, May 1, 1909.
- Report of the Committee on Female Labor. New York State Legislature, Albany, 1906.
- Wisconsin Labor Bureau. Women employed in Factories. From the 10th biennial report of the Bureau of Labor and Industrial Statistics, pp. 641-759. Madison, 1902.

3. WAGES

- Webb, Sidney and Beatrice:** Industrial Democracy, pp. 749-755. London and New York, Longmans, Green and Company, 1897.
- Webb, Sidney:** Alleged Differences in the Wages Paid to Men and to Women for Similar Work. Economic Journal, 1:635.
- Salomon, Dr. Alice:** Ursachen der ungleichen Entlohnung von Maenner und Frauen-arbeit. Leipzig, Duncker v. Humbold, 1906.
- Hammond, M. B.:** Women's Wages in Manual Work. Pol. Sci. Quar., Sept., 1900.

4. HOURS

- Bauer, Etienne:** Le travail de nuit des femmes dans l'industrie. Publiés au nom de l'Association international pour la protecion ligale des travailleurs, et précédés d'une préface par Etienne Bauer. Jena, Gustave Fischer, 1903.
- Van Kleeck, Mary:** Working Hours of Women in Factories. Charities, Oct. 6th, 1906.
- Webb, Mrs. Sidney:** The Case for the Factory Acts. London, Richards, 1902.
- Hours of Labor of Women and Girls in Factories. N. Y. Lab. Bul., Mar., 1907.

BIBLIOGRAPHY

Supreme Court of the United States, October Term, 1907.
Curt Muller, Plaintiff in Error, *vs.* State of Oregon.

5. HEALTH OF WOMEN WORKERS

Jacobi, A. : Physical Cost of Women's Work. Charities, Feb. 2, 1907.

Hamilton, Alice, M.D. : Industrial Diseases with especial reference to the trades in which women are employed. Charities and The Commons, Sept. 5, 1908.

Oliver, Thomas : Dangerous Trades. Chaps. VII, X, XLVII, XLIX, L, LIX. London, J. Murray, 1902.

Kober, George M., M.D. : Industrial and Personal Hygiene. President's Homes Commission, Washington, 1908.

6. LEGISLATION IN THE UNITED STATES

Goldmark, Josephine C. : The necessary sequel of child labor laws. Amer. Jour. of Soc., Nov., 1905.

Goldmark, Josephine C. : Working Women and the Laws; A Record of Neglect. Annals Amer. Acad., Sept., 1906.

Kelley, Florence : The Legal End of the Working Woman's Day. Charities, Dec. 29th, 1906.

Legislation regulating and prohibiting employment of women and children in the U. S. Mass. Lab. Bul., 1905, pp. 24-44.

Decisions of New York Courts. N. Y. Lab. Bul., Sept., 1906, and Dec., 1906.

Simplified Statement of Laws Affecting the Employment of Women and Children in Mass., 1906. (Issued by Industrial Committee, 264 Boylston St., Boston.)

Supreme Court of the United States, October Term, 1907.
Curt Muller, Plaintiff in Error, *vs.* State of Oregon.

7. SPECIAL EMPLOYMENTS *

a. *Garment Trades*

Davis, Philip : Women in the Cloak Trade. Amer. Federationist, October, 1905.

* Only such books and articles are noted here as refer to the special employments touched on in the text.

BIBLIOGRAPHY

Galton, F. W.: *Workers on Their Industries.* Chap. II. Dressmakers and Tailoresses. London, E. Sonnenschein and Company, Ltd., 1895.

Parton, Mabel: *The Work of Women and Children in Cordage and Twine Factories.* Federation Bulletin, Boston, May and June, 1905.

Willett, Mabel Hurd: *The Employment of Women in the Clothing Trades.* Columbia Univ. Studies, 16:234.

b. *Laundries*

Bosanquet, Creighton, Webb: *Commercial Laundries.* Nineteenth Century, 41:224.

Cavendish, Lucy C. F.: *Laundries in Religious Houses.* Nineteenth Century, 41:232.

Couper, James L.: *Laundry Machinery.* Cassiers, 20:507.

Greenwood, Madeleine: *Small Laundries.* Westminster Review, 147:698.

Tebbutt, Sidney: *Steam Laundry Machinery.* Cassiers, 15:291.

Over Steaming Washtubs. (Educational Work Toward Self-dependence carried on at the Laundry of the N. Y. C. O. S.) Charities, 10:562.

c. *Mercantile Houses*

Cranston, M. R.: *The Girl Behind the Counter.* The World To-day, Mar., 1906.

MacLean, Annie Marion: *Two Weeks in a Department Store.* Amer. Jour. Soc., May, 1899.

Price, Lucinda W.: *Training for Saleswomen.* Federation Bulletin, February, 1908.

Report of the Committee on Female Labor. New York State Legislature, Albany, 1896.

d. *Miscellaneous*

Barnum, Gertrude: *Fall River Mill Girls in Domestic Service.* Charities, Mar. 4th, 1905.

Occupations of Girl Graduates. Mass. Lab. Bul., May, 1906.

BIBLIOGRAPHY

e. *Printing Trades*

MacDonald, J. Ramsay: *Women in the Printing Trades*.
London, P. S. King and Son, 1904.

f. *Sweatshops*

Butler, Elizabeth B.: *Sweated Trades in Hudson County*.
Charities, Dec. 18th, 1907.

Sanville, Florence L.: *Women in the Sweated Trades of Philadelphia*.
Railroad Trainmen's Journal, May, 1907.

Report of the Committee on Female Labor. New York
State Legislature, Albany, 1896.

g. *Stogies and Cigars*

Abbott, Edith: *Employment of Women in Industries*.
Cigar-making. *Jour. Pol. Econ.*, 15: 1-25.

h. *Telephone Exchanges*

Report of the Royal Commission on the Dispute Between the Bell Telephone Co. of Canada and the Telegraph Operators of Toronto.
Ottawa, 1907.

INDEX

INDEX

- Accidents.** See *Dangerous occupations; Machinery guards*
- Advertising for employes,** 345
- Alteration room, mercantile houses,** 297
- Americans—**
In cable wrapping work, 223; in candy factories, 57; in canning industries, 33, 43; in dyeing and cleaning work, 206; in garment factories, 22-24, 124-125; in the glass industry, 240; in hinge factory, 223-224; in lamp factories, 232-233; in laundry work, 162, 182; in mercantile houses, 22-24, 307; in the metal trades, 229; in minor needle trades, 141; in paper box factories, 257; in the stogy industry, 22-23, 79; in telegraph and telephone work, 26; neighborhoods, 320, 330
- Amusement places,** 324, 333
- Apprentices—**
In garment trades, 126; millinery, 145, 369; in the stogy industry, 93; unpaid, 338
- Armature winding,** 217
- Art classes,** 331
- Asbestos fibring,** 231-232
- Assyrians, neighborhoods,** 319
- Athalia Daly Home,** 323-324
- Awning factories, 150-154**
Summary and interpretation, 338, 353
- Basketry classes,** 327
- Bean canning, 37, 39, 365**
- Bible classes,** 327
- Bindery work, 277-279, 338**
- Boarding homes, 321-323**
- Boarding houses and tenants, 320-324**
- Body ironers, 178-180**
- Bolt workers, 219-221**
- Bonuses.** See *Premiums and bonuses*
- Bosom press.** See *Steam presses*
- Bottling, in pickle factories, 35, 37, 38, 41**
- Box making.** See *Paper box making*
- Branch libraries, 331**
- Broom factories, 249-253**
Summary and interpretation, 338, 358, 359, 373, 374
- Brush factories, 253-256, 338**
- Buildings, conditions of, 32-33, 44-49, 101-109, 151-152, 154, 165-170, 175, 178, 188-190, 193, 196-197, 210-211, 298-300, 358-367**
- Bunching stogies, 78, 84, 88-89, 91**
- Business Woman's Club, 327-328**
- Buttonholing, 114, 115**
- Cable wrapping, 222-223**
- Calender.** See *Mangling*
- Candy factories, 26, 44-57**
Employes boarding away from home, 320; summary and interpretation, 338, 352, 355, 369

INDEX

Canneries, 25, 31-43
 Summary and interpretation, 338, 344, 353, 361, 365, 369

Cash girls, 296, 304

Casket factories, 262-265
 Summary and interpretation, 338, 352, 360

Catholic church, non-sectarian home, 323

Checking, in laundries, 188-192

Chewing-gum factory, 44, 58

Child labor—
 In canneries, 40; in cracker factories, 62

Chocolate dipping, 46, 51

Christmas trade—
 Overtime work, in candy factories, 53-54; in stogy factories, 90; in paper box factories, 259; in mercantile houses, 302-304; general, 353

Cigar industry. See *Stogy industry*

Classwork, social and industrial, 325-332, 374

Cleaning industries, 19, 161-206

Clerking, 295-308, 338, 342, 358-359, 364, 374. See also *Retail selling*

Clerks—
 Boarding away from home, 321

Closed shop, 372

Clothing expenses, 347

Clubs, 325-332

Coil winding—
 In electrical appliance factories, 216, 217; in making incandescent lights, 236

Columbian School and Settlement, 324

Commercial trades, 274-308

Competition with men—
 In the canning industry, 34, 344; in retail selling, 342; in core making,

213-214; 340-341; in cork making, 266, 343; dyeing and cleaning, 342; electrical appliance making, 343; in the garment trades, 109-111, 342; in lamp factories, 343; in laundry work, 161, 190-191, 340, 343; metal trades, 213-214, 340-341, 343, 344; in the printing trades, 276-277, 342-343, 344; in the stogy industry, 34, 44, 60-61, 78, 91-92, 109-112, 342-343; summary and interpretation, 20-28, 339-346, 370-373; telegraph operating, 292-294, 343; in trunk factories, 342

Compositors. See *Pressroom work*

Concerts, 330

Conditions of work—

In awning factories, 150 ff., 338; in broom factories, 250 ff., 338; in brush factories, 253 ff., 338; in cable wrapping, 222; in candy factories, 44 ff., 338; in canneries, 31 ff., 42, 338, 344; in casket factories, 262 ff., 338; in chewing-gum factories, 58; core making, 210 ff., 340-341; in cork factories, 265 ff., 338, 343; in cracker factories, 60 ff., 338; dyeing and cleaning, 204 ff., 338, 342; electrical appliance making, 215 ff., 343; enameling and japanning, 226; in garment trades, 101 ff., 127 ff., 338, 342; in glass factories, 240 ff., 246, 338; in glove factories, 148, 338; in hinge factory, 223; in lamp factories, 230 ff., 338, 343; in laundries, 161, 178, 193, 199, 338, 340, 343; in mattress factories, 154, 338; in mercantile houses, 295 ff., 338, 342; in the metal trades, 210, 214, 215, 219, 222, 223, 226, 227, 228, 338, 340, 343, 344; in mica splitting, 214; in millinery houses, 141 ff., 338, 340; in paint factories, 268, 338; in paper box factories, 256 ff., 338; in the printing trades, 275 ff., 338, 342-343, 344; in screw and bolt works, 219 ff.; in soap factories, 268 ff., 338; social, 311-332; in sheet and tin plate mills, 227; in the stogy industry, 75 ff., 338, 342, 343; summary and interpretation, 28, 337-375; telegraph operating, 292-294, 338, 343; telephone operating, 282, ff., 338; in trunk factories, 271-272, 338, 342

INDEX

- Confectionery. See *Candy*
- Consumers' leagues, 350
- Contract system, absence of, 23, 127
- Convict labor and broom making, 250, 253
- Cooking classes, 325-329
- Copyists, in millinery establishments, 144
- Core building for transformers, 217
- Core making, 210-214
 Summary and interpretation, 340-341, 361-363, 369, 373, 374
- Cork factories, 26, 265-268
 Summary and interpretation, 338, 343, 352-353, 358, 359-360, 369-370
- Cost of living, 320-323, 338, 345-347
- Cracker factories, 60-71
 Summary and interpretation, 338, 352, 358, 362, 365
- Cream dipping, 51
- Croatians—
 In canneries, 33; in glass industry, 240; in metal trades, 228
- Cuff press. See *Treadle pressure machinery*
- Custom tailoring, 131-132
- Cutting—
 In garment factories, 110; cork-paper, 266; gloves, 149; paper boxes, 257
- Cylinder double needle machines.
 See *Double-needle machines*
- Dancing, 324, 325, 329
- Dangerous occupations—
 Cork making, 265; garment trades, 107-109; hinge factory, 225; lacquering, 235, 263, 360; lamp making, 233-235, laundry work, 167-168, 171-173, 176-177, 180-181; printing trades, 281
- Decorating glass, 242-245
- Department stores. See *Mercantile houses*
- Dexterity—
 Demand for, 369
- Disease-producing industries, 358-367
- Distribution of work. See *Occupations*
- Division of labor—
 In candy factories, 49; in canneries, 34-37; in chewing-gum factories, 58; in the cracker industry, 63-70; in the garment trades, 112-114; in glove factories, 149; in laundries, 164, 170, 175-178, 183, 187, 188; in millinery houses, 144; results on skilled labor, 371; in the stogy industry, 77-79, 91
- Docking. See *Fining*
- Double-needle machines—
 In garment factories, 113, 118; in glove factories, 149; in awning factories, 152
- Dressmaking classes, 329
- Drying rooms—
 In stogy factories, 76, 77
- Duration of work. See *Tenure of work*
- Dust-producing occupations, 359-361
- Dyeing and cleaning, 204-206
 Summary and interpretation, 338, 342, 352, 358, 360
- Economic foothold of women, 368-375
- Eight-hour day, 354-356
- Electrical appliances, factory conditions, 215-219
 Summary and interpretation, 343, 355
- Embroidery classes, 330-331
- Employers' associations—
 In the laundry business, 162-164

INDEX

- Employers' liability—**
 In laundry work, 173
- Enameling,** 226, 360
- Entertainment,** 324, 332-333, 356-357
- Environment.** See *Conditions of work*
- Etching—**
 In glass factories, 242, 243
- Excitement, craving for, overwork cause of,** 356
- Exhaust machinery,** 361
- Extension work, Y. W. C. A.,** 316-317, 326-327
- Extractors—**
 In laundries, 167, 168
- Factories—**
 Effects on home, see *Home life*;
 garment, 101-126; recreative possibilities of, 311-317
- Factory buildings.** See *Buildings*
- Factory defined,** 80, 127-128
- Factory inspection, inefficiency of,** 53, 108, 200, 201, 351-352, 359
- Factory laws—**
 Effect on conditions in stogy factories, 94; enforcing of, 53, 108, 200, 201, 351-352, 359, 364
- Fancy ironers—**
 In laundries, 186-187, 369
- Fancy work classes,** 328
- Fibring asbestos,** 231-232
- Fine ironers—**
 In laundries, 186-187, 369
- Fining—**
 In hinge factories, 224; in mercantile houses, 303; in the stogy industry, 86
- Finishing—**
 Garments, 114-115; glassware, 241-242; in laundries, 186-187
- First Presbyterian Church, classes,** 327
- Flat-bed double-needle machines.**
 See *Double-needle machines*
- Food production,** 18, 25, 31-71
- Foot-press work.** See *Treadle pressure machinery*
- Foreigners in occupations.** See *Racial analysis* and names of races
- Forewomen—**
 Relations to workers, 119-120
- Foundries,** 210-215, 362-363
- French—**
 In dyeing and cleaning, 206
- Garment trades,** 18, 19, 24, 101-140
 Employes boarding away from home, 320; summary and interpretation, 338, 342, 353, 359-360, 361, 363-364, 374
- Gas- and fume-producing occupations,** 360-363
- Gas mantle making,** 235-236
- Germans—**
 In canning industries, 33, 43; in garment trades, 21, 23, 24; in lamp work, 232-233; in paper box factories, 257; in soap factories, 270; in stogy industry, 81, 84; neighborhoods, 325, 330
- Glass decorators,** 242-245
- Glass workers,** 19, 239-240, 338
- Glove factories,** 148-150, 338
- Greeks, neighborhoods,** 319
- Guarding machinery.** See *Machinery guards*
- Gymnasium classes,** 325, 327, 329-330
- Hand finishing on garments,** 114-115
- Handicrafts and handworkers,** 249-272, 369
- Hand stogy making,** 78, 91. See also *Stogy industry*

INDEX

Health, effects upon, of work in—

Awning factories, 153, 156; candy factories, 41, 54-57; canneries, 42; cracker factories, 61-66, 71; electrical appliance making, 216, 219; garment trades, 106-107, 119, 125; glass factories, 242; hinge factory, 224-225; lacquering, 235, 263, 360; lamp factories, 235, 238; laundry work, 166-167, 180, 182, 183, 202-203; long hours, 354-359, 373-374; low wages, 315, 350-351, 358; mattress factories, 156-157; mica splitting, 215, 360; printing trades, 279; recreative conditions, 311-317, 324; retail selling, 299-300, 302; screw and bolt shops, 221; from speeding, see *Speeding*; stogy industry, 41, 77, 83, 86, 90, 94-97, 359, 362-363; telephone exchange, 286-292; telegraph operating, 293; workroom conditions, 358-367; summary and interpretation, 358-367

Heat-producing industries, 361-363

Helping Hand Society, 327

Hill section, description, 21, 80-84, 319

Hinge factory, 223-226, 370-371

Home Industries—

Characteristics of, 23-24; dyeing and cleaning, 204, 206; early stages in, 20, 21; garment trades, 131-140; gas mantle making, 235; mattress making, 156; stogy making, 81, 82

Home life and industrial conditions, 31, 56, 81, 125, 131-140, 203, 290, 305-307, 318-324, 340-350, 366-367, 375

Homes, boarding, 321-323

Hours of work—

In awning factories, 153, 353; in broom factories, 252; in brush factories, 255; cable wrapping, 223; in candy factories, 53-55, 353; in canneries, 39-42, 43, 353; in casket factories, 263-264, 352; core making, 211-212; in cork factories, 267, 352-353; in cracker factories, 60-70; in dyeing and cleaning establishments, 205; in electrical appliance work, 218-219; in enameling and japanning

rooms, 226; in the garment trades, 122-124, 130, 353; glass industry, 244, 246; in the hinge factory, 225; in lamp factories, 232-233, 237; in laundries, 199-203, 352; in mattress factories, 155; in mercantile houses, 297, 302-304; in the millinery trade, 145-147, 353; in paper box factories, 259, 353; in the printing trades, 280; in screw and bolt factories, 221; in sheet and tin plate industry, 227-228; of telegraph operators, 293; of telephone operators, 288-291; summary and interpretation, 339, 351-357; in trunk factories, 272

Household economics classes, 325-331

Hungarians—

In canneries, 33; in foundry work, 210; in laundries, 182; in metal trades, 228

Hunkies. See *Slavs*

Hygiene. See *Health*

Immigrants, proportion of women, 20-21

Incandescent lamp making, 236-238

Increasing output. See *Speeding*

Industrial classwork, 325-332

Industrial conditions, summary of, 337-375

Inspection. See *Factory inspection*

Inspectors—

In garment factories, 115; in laundries, 184; in metal trades, 225

Institutional laundries, 193-199

Invoicing. See *Stock-taking*

Irish—

In cork factories, 267; in garment trades, 21, 23-24; in laundries, 162; in the stogy industry, 83; neighborhoods, 319, 325, 330

Ironing—

In laundries, 176-187 §

RUSSELL SAGE FOUNDATION PUBLICATIONS

FOUR BOOKS ON SOCIALIZED SCHOOLS.

- WIDER USE OF THE SCHOOL PLANT.** By Clarence Arthur Perry. Illustrated. 12mo. 404 pages. Second edition. Price, postpaid, \$1.25.
AMONG SCHOOL GARDENS. By M. Louise Greene, M.Pd., Ph.D. Illustrated. 12mo. 380 pages. Second edition. Price, postpaid, \$1.25.
LAGGARDS IN OUR SCHOOLS. A Study of Retardation and Elimination. By Leonard P. Ayres, Ph.D. 8vo. 252 pages. Third Edition. Price, postpaid, \$1.50.
MEDICAL INSPECTION OF SCHOOLS. By Luther Halsey Gulick, M.D., and Leonard P. Ayres. 8vo. 286 pages. Third edition. Price, postpaid, \$1.00.

THE ALMSHOUSE: Construction and Management. By Alexander Johnson. Illustrated. 12mo. 274 pages. Price, postpaid, \$1.25.

SALESWOMEN IN MERCANTILE STORES. By Elizabeth Beardsley Butler. Illustrated. 12mo. 236 pages. Price, postpaid, \$1.00.

CIVIC BIBLIOGRAPHY FOR GREATER NEW YORK. Edited by James Bronson Reynolds, for the New York Research Council. 8vo. 312 pages. Price, postpaid, \$1.62.

HANDBOOK OF SETTLEMENTS. Edited by Robert A. Woods and Albert J. Kennedy. 8vo. 342 pages. Price, Cloth, postpaid, \$1.64. Paper, postpaid, \$0.85.

THE STANDARD OF LIVING AMONG WORKINGMEN'S FAMILIES IN NEW YORK CITY. By Robert Coit Chapin, Ph.D. 8vo. 388 pages. 131 tables. 16 diagrams. Price, postpaid, \$2.00.

REPORT ON THE DESIRABILITY OF ESTABLISHING AN EMPLOYMENT BUREAU IN THE CITY OF NEW YORK. By Edward T. Devine, Ph.D., LL.D. 8vo. 238 pages. Paper. Price, postpaid, \$1.00.

OTHER VOLUMES IN PREPARATION.

- THE DELINQUENT CHILD AND THE HOME.** By Sophonisba P. Brockinridge and Edith Abbott.
LOCAL OPTION IN MASSACHUSETTS. By Amy F. Acton.

FIVE SPECIAL BOOKS recently published by Charities Publication Committee, which fill spaces hitherto unoccupied on library shelves.

- THE SPIRIT OF SOCIAL WORK.** By Edward T. Devine. Nine Addresses. 12mo. 244 pages. Price, postpaid, \$1.00.
OUR SLAVIC FELLOW CITIZENS. By Emily Greene Balch, of the Faculty of Wellesley College. Part I. Slavic Emigration at Its Source. Part II. Slavic Immigrants in the United States. 8vo. 650 pages. 48 full-page illustrations. Price, postpaid, \$2.50.
HOW TWO HUNDRED CHILDREN LIVE AND LEARN. By Rudolph R. Reeder, Superintendent New York Orphan Asylum at Hastings-on-Hudson. 12mo. 248 pages. Illustrated. Second edition. Price, postpaid, \$1.25.
VISITING NURSING IN THE UNITED STATES. By Ysaabella Waters of the Henry Street (Nurses') Settlement, New York. 8vo. 367 pages. Price, postpaid, \$1.25.
SOCIAL FORCES. By Edward T. Devine, Editor The Survey, General Secretary New York Charity Organization Society, Schiff Professor of Social Economy, Columbia University. 12mo. 226 pages. Second edition. Price, postpaid, \$1.00.

CHARITIES PUBLICATION COMMITTEE
PUBLISHERS FOR THE RUSSELL SAGE FOUNDATION
105 EAST 22d STREET, NEW YORK

INDEX

- Premiums and bonuses, 65, 85-91, 303
- Preparation work in canneries, 36-37, 39, 41, 42, 371
- Preparers, in millinery establishments, 144
- Pressing in garment factories, 111
- Pressroom work, 276-277, 279
- Printing trades, 18, 19, 26, 268, 275-281
 Employes boarding away from home, 320; summary and interpretation, 338, 342-343, 344, 352, 358-359, 361, 366, 372-373, 374
- Prostitution and wage rates, 305-307, 348-349
- Pullman Company, in laundry business, 173
- Punching presses—
 In lamp factories, 232-235, 361;
 in cork factories, 265
- Racial analysis, 20-26, 33, 43, 62, 77, 83-84, 124, 129, 141, 162, 206, 210, 219, 223-224, 226, 227-229, 232-233, 240, 257, 267, 270, 319-320, 326, 330
- Racial vitality, depletion of—
 By low wages, 350; in the stogy industry, 95-96, 219; in telephone operating, 290-292
- Rate cutting, 366
 In casket factories, 263-264; in core making, 212; in cork factories, 267; in electrical appliance making, 218; in garment trades, 120; in lamp factories, 236; in laundries, 185-186; in printing trades, 366
- Recreation, 311-333, 350, 356-357
- Reliefs, in telephone exchanges, 289-291, 311-313, 356
- Respirators, 360, 361
- Riveting, in lamp factories, 232-235
- Rolling stogies, 78, 84-86, 89, 91, 371
- Roll ironing machines, 179-180
- Roman Catholic church, non-sectarian home, 323
- Ruling, in printing work, 278-279
- Salesmanship instruction, 307-308, 374
- Saleswomen, 18, 19, 22, 26, 298-308, 321, 342, 358-359, 364, 374
- Sanitary conditions. See *Buildings; Health*
- Screw and bolt workers, 219-221
- Seamstresses—
 In casket factories, 263-264, 352;
 in dyeing and cleaning works, 205;
 in laundries, 187
- Seasonal rush. See *Overtime work*
- Seats for employes, 300-301, 358-359
- Section system, in garment factories, 112
- Selective forces—
 Drawing women into various occupations, 17-27, 340-375; awning making, 150; broom making, 250; canning industry, 35-37, 43; retail selling, 295-296, 298, 305-307; core making, 213; cracker industry, 61-62; dyeing and cleaning work, 206; food production, 18; garment trades, 101, 125, 134-135; glove making, 148; lamp manufacture, 230; laundry work, 161, 164-165, 168, 173, 178, 182, 188, 190, 194, 202-203; mattress industry, 150-151, 156-157; metal trades, 228-229; millinery work, 142, 147; neighborhood surroundings, 318-324, 320; paper box making, 256; printing trades, 279; screw and bolt workers, 219-220; soap factories, 269, 271; stogy industry, 75, 77, 79-80, 91-92, 97; telephone operating, 285
- Settlements, Social, 324-332
- Sewing classes, 325-331
- Sewing trades. See *Alteration room; Bindery work; Garment trades; Seamstresses*

INDEX

- 340, 343, 344; mica splitting, 214, in millinery houses, 142, 144, 338, 340; in paint factories, 268, 338; paper box making, 256 ff., 338; pressroom work, 276; in the printing trades, 275 ff., 338, 342-343, 344; retail selling, 295-308, 338, 342; in screw and bolt works, 219-221; in soap factories, 268 ff., 338; sheet steel mills, 227-228; in the stogy industry, 75, 91, 338, 342, 343; summary and interpretation, 318-324, 332-333, 338-344, 368-375; telegraph operating, 292-294, 338, 343; telephone operating, 282, 287, 338; tinware factory, 221; in trunk factories, 271, 338, 342
- Outdoor clubs, 326**
- Outwork system, garment trades, 23, 133-140**
- Overtime work—**
 In asbestos fibring, 232; awning factories, 153-154, 353; brush factories, 255; cable wrapping, 223; candy factories, 46, 53-55, 353; canneries, 39-42, 353; casket factories, 263-264, 352; core making, 212; cork factories, 267, 352-353; cracker factories, 69-70; electrical appliance making, 219; enameling and japanning, 226; garment trades, 122-124, 353; glass decorating, 244; hinge factory, 225; lamp factories, 232-233; laundries, 198, 200-202, 352; legislation against, 53, 200, 201, 351-352; mercantile houses, 297, 302-304; millinery trade, 145-146, 353; paint factories, 268; paper box factories, 259, 353; printing trades, 280; screw and bolt factories, 221; stogy industry, 90, 353; summary and interpretation, 351-357; telegraph operating, 293; telephone operating, 285, 287, 289; tinware factories, 222
- Pace setting. See Speeding**
- Packing—**
 Candy, 47, 48-50; chewing gum, 58; crackers, 64, 66, 70-71; glassware, 240-241; soap, 269, 270; tobacco, 79, 91
- Paint factories, 268, 338**
- Paper box factories, 256-261**
 Summary and interpretation, 338, 353, 358, 369-370
- Parents' clubs and classes, 330**
- Pennsylvania laws on overtime work, difficulty of enforcing, 351-352**
- Philanthropic work. See Welfare work**
- Philodora club, 326-327**
- Pickling. See Canneries**
- Picture shows, 333**
- Piece work—**
 In awning factories, 153; in candy factories, 46-47; in canneries, 38-39, 42; in core making, 212; in cork factories, 267; in cracker factories, 63-64; on electrical appliances, 218; in garment trades, 108, 116-122; in glass decorating, 243; in glove factories, 148-149; in hinge factories, 224; involves loss to manufacturers, 354; in lamp factories, 235-237; in laundries, 184-186; in mattress factories, 155; in popcorn factory, 59; in printing trades, 279; in screw and bolt making, 221; in the stogy industry, 84-91
- Pittsburgh trades, range and selective forces of, 18**
- Play clubs, 325, 326, 329-333**
- Playground Association, field house, 324, 329-331**
- Poles—**
 In canning industries, 33; in cork factories, 267; in cracker factories, 62; in foundry work, 210; in the glass industry, 240; in the hinge factory, 223; in lamp factories, 232-233; in laundry work, 162; in the metal trades, 228; in soap factories, 270; in sheet and tin plate work, 227; neighborhoods, 319-320
- Polishing steel plates, 227-228**
- Popcorn factories, work and wages 58-59**
- Population in Pittsburgh, male, 20**

INDEX

- Premiums and bonuses, 65, 85-91, 303
- Preparation work in canneries, 36-37, 39, 41, 42, 371
- Preparers, in millinery establishments, 144
- Pressing in garment factories, 111
- Pressroom work, 276-277, 279
- Printing trades, 18, 19, 26, 268, 275-281
 Employes boarding away from home, 320; summary and interpretation, 338, 342-343, 344, 352, 358-359, 361, 366, 372-373, 374
- Prostitution and wage rates, 305-307, 348-349
- Pullman Company, in laundry business, 173
- Punching presses—
 In lamp factories, 232-235, 361;
 in cork factories, 265
- Racial analysis, 20-26, 33, 43, 62, 77, 83-84, 124, 129, 141, 162, 206, 210, 219, 223-224, 226, 227-229, 232-233, 240, 257, 267, 270, 319-320, 326, 330
- Racial vitality, depletion of—
 By low wages, 350; in the stogy industry, 95-96, 219; in telephone operating, 290-292
- Rate cutting, 366
 In casket factories, 263-264; in core making, 212; in cork factories, 267; in electrical appliance making, 218; in garment trades, 120; in lamp factories, 236; in laundries, 185-186; in printing trades, 366
- Recreation, 311-333, 350, 356-357
- Reliefs, in telephone exchanges, 289-291, 311-313, 356
- Respirators, 360, 361
- Riveting, in lamp factories, 232-235
- Rolling stogies, 78, 84-86, 89, 91, 371
- Roll ironing machines, 179-180
- Roman Catholic church, non-sectarian home, 323
- Ruling, in printing work, 278-279
- Salesmanship instruction, 307-308, 374
- Saleswomen, 18, 19, 22, 26, 298-308, 321, 342, 358-359, 364, 374
- Sanitary conditions. See *Buildings; Health*
- Screw and bolt workers, 219-221
- Seamstresses—
 In casket factories, 263-264, 352;
 in dyeing and cleaning works, 205;
 in laundries, 187
- Seasonal rush. See *Overtime work*
- Seats for employes, 300-301, 358-359
- Section system, in garment factories, 112
- Selective forces—
 Drawing women into various occupations, 17-27, 340-375; awning making, 150; broom making, 250; canning industry, 35-37, 43; retail selling, 295-296, 298, 305-307; core making, 213; cracker industry, 61-62; dyeing and cleaning work, 206; food production, 18; garment trades, 101, 125, 134-135; glove making, 148; lamp manufacture, 230; laundry work, 161, 164-165, 168, 173, 178, 182, 188, 190, 194, 202-203; mattress industry, 150-151, 156-157; metal trades, 228-229; millinery work, 142, 147; neighborhood surroundings, 318-324, 320; paper box making, 256; printing trades, 279; screw and bolt workers, 219-220; soap factories, 269, 271; stogy industry, 75, 77, 79-80, 91-92, 97; telephone operating, 285
- Settlements, Social, 324-332
- Sewing classes, 325-331
- Sewing trades. See *Alteration room; Bindery work; Garment trades; Seamstresses*

INDEX

- Sheet steel work**, 227-228
- Shirtwaist sewing classes**, 325, 329
- Single-needle machines**
 In awning factories, 152; in garment factories, 112, 113; in glove factories, 149; in mattress factories, 155; in millinery establishments, 144
- Sizing in broom factories**, 252
- Skilled workers, demand for**, 369, 373
- Skirt making classes**, 329
- Slack season, in various industries—**
 Awning factories, 150-153; cable wrapping, 223; candy factories, 55-57; canneries, 38; cork factories, 267; dyeing and cleaning, 205; garment trades, 123; lamp factories, 232; laundry work, 186-187; mattress factories, 155; mercantile houses, 297; 304; millinery trade, 146-147; paint factories, 268; printing trades, 280-281; stogy industry, 91
- Slavs**
 Distribution in trade groups, 22, 24-27; in canning industries, 33, 43; in enameling work, 226; in the glass industry, 240; in the hinge factory, 224; in laundry work, 165; in metal trades, 228; in paper box factories, 257; in screw and bolt works, 219; in the stogy industry, 77, 83; neighborhoods, 320
- Sliding scale—**
 In the stogy industry, 85-91; for telegraph operators, 293-294
- Slovaks, neighborhoods**, 325
- Small shops.** See *Workshops*
- Soap factories**, 268-271
 Summary and interpretation, 338, 358, 359-360
- Social evils of low wages**, 347-350
- Social life of workers**, 130-140, 305-307, 310-332, 350, 356-357
- Social secretaries**, 315-316
- Social settlements**, 324-332
- Social wastes**, 96, 137, 245, 290-292, 332-333
- Soho Baths Settlement**, 325-326
- Soldering**, 36, 43, 226
- Sorting**
 Corks, 266, 369; corn for brooms, 251, 252; laundry, 188-192; pickles, 35, 37, 39; steel plates, 227-228
- South Side section, description**, 320, 326
- Speed, demand for**, 369
- Speeding—**
 Effects of, 42, 61-64, 79, 95-97, 119, 219, 235, 236-237, 270, 271, 279, 314-316, 355, 365-366, 373-374; inducements for, 65, 85-91, 116, 184-186, 218, 260, 337, 339, 365-366
- Standards of living**, 349-350
- Standing at work.** See *Seats for employes*
- Starching**, 175-178, 371
- Staying machines.** See *Knowlton-Beach staying machine*
- Steam presses, in laundries**, 181-182
- Steam-producing occupations**, 360-361
- Steel plate workers**, 227-228
- Stimulation, excessive craving for**, 356
- Stock-taking**, 302
- Stogy industry**, 18, 19, 24, 41, 75-97
 Summary and interpretation, 338, 342, 343, 353, 359, 362-363, 365-366, 369, 373
- Stores.** See *Mercantile houses*
- Strikes, telegraphers'**, 292-294
- Stripping—**
 Tobacco, 77, 83-84, 87-88, 91, 371; in paper box factories, 257
- Study clubs**, 325
- Subsidizing women workers**, 305-307, 314-315, 345-346
- Suitcase factories**, 271-272

INDEX

- Sunday work—**
 Coil winders, 218; telegraph operators, 293; telephone operators, 289
- Sweating system—**
 Characteristics, 23-24; in garment trades, 128-140; in the stogy industry, 75-76, 80-84
- Sweatshop, defined, 80. See Home industries**
- Tailoring. See Custom tailoring; Garment trades**
- Telegraph operators, 19, 20, 26, 292-294**
 Summary and interpretation, 338, 343, 352, 369, 372
- Telephone operators, 19, 20, 26, 282-292**
 Summary and interpretation, 338, 352, 355-356
- Ten-hour day, 354-356**
- Tenure of work, and industrial efficiency, 345, 372-373, 375**
 Cable wrapping, 223; in candy factories, 57; in canneries, 42; in cracker factories, 61-62; dyeing and cleaning, 205, 206; effects on wages, 345; electrical appliance making, 219; in garment trades, 124; in laundries, 167, 182, 187, 189, 193; in mattress factories, 156; in pressrooms, 277; telephone operators, 291-292
- Tin-can cutting in canneries, 36, 37, 39**
- Tin-plate workers, 227-228**
- Tinware factories, 221-222**
- Tobacco trades. See Stogy industry**
- Tobacco trust, influence on factory conditions, 92-93**
- Trade groups—**
 Summary and interpretation, 19, 338-375
- Trade schools, 374-375**
- Trade training. See Training for trades**
- Trade unions. See Labor unions**
- Training for trades and occupations, 307-308, 332, 345, 372-375**
- Transportation industries, number employed, 20**
- Treadle pressure machinery—**
 In garment factories, 113; in laundries, 182-183; in the printing trades, 278. See also *Foot-press work*
- Trimmers—**
 Of bolts, 220; in garment factories, 115; in millinery establishments, 144, 145
- Trunk factories, 271-272**
 Summary and interpretation, 338, 342, 352, 358
- Trusts. See Tobacco trust**
- Tuberculosis, in dust-producing occupations, 359-360**
- Typographers. See Printing trades**
- Unemployment, effects of, 56**
- Unions. See Labor unions**
- Vacation trips, 326-327**
- Ventilation standards, 166, 179, 298-299, 364-365**
- Wages in various occupations—314-315**
 Awning factories, 153, 338; broom factories, 252, 338; brush factories, 255, 338; cable wrapping, 222; candy factories, 46-47, 48-52, 55-56, 338; canneries, 38-39, 43, 338; casket factories, 263, 338; core making, 212-213, 340-341; cork factories, 266-267, 338; cracker factories, 63, 65, 69-70, 338; dyeing and cleaning, 205, 338; electrical appliance making, 218-219, 343; enameling and japanning, 226; garment trades, 110-111, 115-122, 130, 134-138, 338; glass workers, 241-246, 338; glove factories, 148-150, 338; hinge factory, 224

INDEX

- lamp factories, 231-232, 234-238, 338, 366; laundry work, 163, 168, 170, 173, 174, 177, 183-187, 190, 194, 197, 201-202, 338, 340; mattress factories, 155, 338; mercantile houses, 297, 303-307, 338; metal trades, 229, 338; mica splitting, 214; millinery workers, 143-144, 338; paint factories, 268, 338; paper box factories, 260-261, 338; printing trades, 279-280, 338, 366; screw and bolt works, 220-221; soap factories, 269-270, 338; sheet and tin plate works, 228; stogy industry, 35-60, 84-91, 338; summary and interpretation, 337-350, 375; telegraph operators, 294, 338; telephone operators, 285, 338; tinware factories, 222; trunk factories, 272, 338
- Washing—**
Glassware, 240-241, 371; in laundries, 164-168
- Welfare work, 312-316**
- Wire stitching—**
In paper box factories, 258; in printing trades, 278
- Women in trades. See Competition; Conditions of work; Occupations; Number employed; Dangerous occupations; Health; Social Wastes; Racial analysis; Selective forces; Wages**
- Wood's Run Industrial House, 325**
- Workmanship, demand for, 369, 372-373**
- Workroom construction. See Buildings**
- Workshops, in garment trades, 127-132**
- Wrapping—**
Cables, 222-223; candy, 48-50; demand for, 369, 371; merchandise, 296. See also *Packing*
- Y. W. C. A. extension work, 316-317, 326-327**

RUSSELL SAGE FOUNDATION PUBLICATIONS

THE PITTSBURGH SURVEY

The most significant piece of investigation the country has seen.
—“American Magazine.”

The findings of the Pittsburgh Survey are to be published in six volumes under the editorial direction of Paul U. Kellogg, Director of the Pittsburgh Survey. Four of these books are now ready:

WOMEN AND THE TRADES

By ELIZABETH BEARDSLEY BUTLER
Former Secretary of the Consumers' League of New Jersey

The first general survey of the occupations open to wage-earning women in an American city.

8vo, 440 pp.; 2d Ed.; 40 full-page illustrations of women at their work, by Lewis W. Hine. Price, Postpaid, \$1.72

WORK-ACCIDENTS AND THE LAW

By CRYSTAL EASTMAN
Attorney-at-Law; Secretary New York State Industrial Accident Commission

During the year studied, five hundred industrial wage-earners were killed at their work in Allegheny County, Pa. The story of their hazards is dramatic and compelling.

8vo, 350 pages; 38 full-page illustrations by Lewis W. Hine, Joseph Stella and others. Price, Postpaid, \$1.72

HOMESTEAD: THE HOUSEHOLDS OF A MILL TOWN

By MARGARET F. BYINGTON
Assistant Secretary, Charity Organization Department, Russell Sage Foundation

A clearly drawn picture of the home and community life of the steel workers.

8vo, 310 pages; 41 full-page illustrations by Lewis W. Hine, Joseph Stella and others. Price, Postpaid, \$1.70

THE STEEL WORKERS

By JOHN A. FITCH
Formerly Expert, New York Department of Labor

A study of the men who make steel by one who lived among them.
8vo, 350 pages; 39 full-page illustrations by Lewis W. Hine, Joseph Stella and others. Price, Postpaid, \$1.73

The entire set of the Pittsburgh Survey volumes, to be issued at \$1.50 net each, will be as follows:

THE PITTSBURGH DISTRICT—Symposium by John R. Commons, Florence Kelley, Robert A. Woods, Peter Roberts, Charles Mulford Robinson and others.
THE STEEL WORKERS—John A. Fitch.
HOMESTEAD: THE HOUSEHOLDS OF A MILL TOWN—Margaret F. Byington.
WOMEN AND THE TRADES, Second Edition—Elizabeth Beardsley Butler.
WORK-ACCIDENTS AND THE LAW—Crystal Eastman.
PITTSBURGH: THE GIST OF THE SURVEY—Paul U. Kellogg.

CHARITIES PUBLICATION COMMITTEE

105 East 22d Street, New York

INDEX

- lamp factories, 231-232, 234-238, 338, 366; laundry work, 163, 168, 170, 173, 174, 177, 183-187, 190, 194, 197, 201-202, 338, 340; mattress factories, 155, 338; mercantile houses, 297, 303-307, 338; metal trades, 229, 338; mica splitting, 214; millinery workers, 143-144, 338; paint factories, 268, 338; paper box factories, 260-261, 338; printing trades, 279-280, 338, 366; screw and bolt works, 220-221; soap factories, 269-270, 338; sheet and tin plate works, 228; stogy industry, 35-60, 84-91, 338; summary and interpretation, 337-350, 375; telegraph operators, 294, 338; telephone operators, 285, 338; tinware factories, 222; trunk factories, 272, 338
- Washing—**
Glassware, 240-241, 371; in laundries, 164-168
- Welfare work, 312-316**
- Wire stitching—**
In paper box factories, 258; in printing trades, 278
- Women in trades. See** *Competition; Conditions of work; Occupations; Number employed; Dangerous occupations; Health; Social Wastes; Racial analysis; Selective forces; Wages*
- Wood's Run Industrial House, 325**
- Workmanship, demand for, 369, 372-373**
- Workroom construction. See** *Buildings*
- Workshops, in garment trades, 127-132**
- Wrapping—**
Cables, 222-223; candy, 48-50; demand for, 369, 371; merchandise, 296. See also *Packing*
- Y. W. C. A. extension work, 316-317, 326-327**

RUSSELL SAGE
FOUNDATION

WOMEN AND THE
TRADES

PITTSBURGH, 1907-1908

By

ELIZABETH BEARDSLEY BUTLER
FORMER SECRETARY, CONSUMERS LEAGUE OF NEW JERSEY

THE PITTSBURGH SURVEY
FINDINGS IN SIX VOLUMES

EDITED BY

PAUL UNDERWOOD KELLOGG

NEW YORK
CHARITIES PUBLICATION
COMMITTEE . . . MCMXI