

UNITED STATES DEPARTMENT OF LABOR

BULLETIN OF THE WOMEN'S BUREAU, NO. 50

**EFFECTS OF APPLIED RESEARCH UPON
THE EMPLOYMENT OPPORTUNITIES OF
AMERICAN WOMEN**

[PUBLIC—No. 259—66TH CONGRESS]

[H. R. 13229]

An Act To establish in the Department of Labor a bureau to be known as the
Women's Bureau

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be established in the Department of Labor a bureau to be known as the Women's Bureau.

SEC. 2. That the said bureau shall be in charge of a director, a woman, to be appointed by the President, by and with the advice and consent of the Senate, who shall receive an annual compensation of \$5,000. It shall be the duty of said bureau to formulate standards and policies which shall promote the welfare of wage-earning women, improve their working conditions, increase their efficiency, and advance their opportunities for profitable employment. The said bureau shall have authority to investigate and report to the said department upon all matters pertaining to the welfare of women in industry. The director of said bureau may from time to time publish the results of these investigations in such a manner and to such extent as the Secretary of Labor may prescribe.

SEC. 3. That there shall be in said bureau an assistant director, to be appointed by the Secretary of Labor, who shall receive an annual compensation of \$3,500 and shall perform such duties as shall be prescribed by the director and approved by the Secretary of Labor.

SEC. 4. That there is hereby authorized to be employed by said bureau a chief clerk and such special agents, assistants, clerks, and other employees at such rates of compensation and in such numbers as Congress may from time to time provide by appropriations.

SEC. 5. That the Secretary of Labor is hereby directed to furnish sufficient quarters, office furniture, and equipment for the work of this bureau.

SEC. 6. That this Act shall take effect and be in force from and after its passage.

Approved, June 5, 1920.

U. S. DEPARTMENT OF LABO
JAMES J. DAVIS, SECRETARY
WOMEN'S BUREAU
MARY ANDERSON, Director,

. BULLETIN OF THE WOMEN'S BUREAU, NO. 20

EFFECTS OF APPLIED RESEARCH
UPON THE EMPLOYMENT OPPORTUNITIES
OF AMERICAN WOMEN

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CONTENTS

	Page.
Part I. Introduction	1
Summary	3
Changes resulting from research.....	3
General effects of such changes on employment opportunities of women.....	3
The changes and effects in true perspective.....	6
II. Illustrative descriptions of changes due to scientific research and the effect of such changes on the employment opportunities of women	13
Dormant natural resources for new and old industries.....	13
New synthetic substances.....	16
New products for old uses.....	20
Development of new branches of old industries.....	24
New raw materials and new processes in an old industry..	29
A new material to meet an old need.....	30
New products from old materials.....	32
New methods of producing familiar products.....	33
System of interchangeable parts.....	34
Wider application of known forces as a result of research..	34
New methods of communication.....	37
New commercial service.....	42
Inventions and discoveries which, while not directly related to women's employment opportunities, are yet fundamental to the maintenance and development of modern occupational activities of women as well as men.....	43
III. What the facts suggest	45

APPENDIX TABLES

TABLE I. Actual and relative number of women employed in the manufacture of cotton and cotton goods—census years	51
II. Actual and relative number of women employed in the manufacture of glass and glassware—census years	51
III. Actual and relative number of women employed in the manufacture of paper and wood pulp—census years	52
IV. Actual and relative number of women employed in the manufacture of rubber and rubber products—census years	52
V. Actual and relative number of women employed in the manufacture of tobacco and tobacco products—census years	52
VI. Actual and relative number of women employed in canning and preserving fruits and vegetables, preserves and sauces, fish and oysters—census years	53
VII. Actual and relative number of women employed in the manufacture of electrical machinery, apparatus, and supplies—census years	53
VIII. Women employed as stenographers and typists—census years ..	54

APPENDIX

1. Figures in Tables I to VII are taken from United States of the Census. Ninth Census: 1870, v. 3, pp. 394-408 (for 1850, 1860, 1870). Twelfth Census: 1900, v. 7, Manufactures, pt. 1, pp. 3-17 (for 1880, 1890, 1900). Thirteenth Census: 1910, v. 8, Manufactures, 1909, pp. 520-541 (for 1910). Census of Manufactures: 1914. Abstract, pp. 530-543 (for 1914). Fourteenth Census: 1920, v. 8, Manufactures, 1919, pp. 328-490 (for 1919).

2. The industrial groupings of the 1910 census used throughout the tables are somewhat different from those of other years, because this census combined figures for several branches of industries left separate in other years.

3. Figures for 1850 and 1860 are given for males and females, for 1870 for men over 16 years and women over 15 years, for all other years for men and women over 16 years of age.

TABLE I.—Actual and relative number of women employed in the manufacture of cotton and cotton goods—census years

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	102,524	64,562	-----	63.0
1860.....	123,153	75,365	+16.7	61.3
1870.....	112,796	69,839	-7.2	61.9
1880.....	155,255	91,148	+30.5	59.7
1890.....	185,444	106,607	+17.0	54.5
1900.....	262,603	126,882	+19.0	48.3
1910.....	347,477	150,057	+18.3	43.2
1914.....	361,307	149,740	-2	41.4
1919.....	447,709	189,736	+20.7	42.4

TABLE II.—Actual and relative number of women employed in the manufacture of glass and glassware—census years

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	5,668	97	-----	1.7
1860.....	9,016	251	+153.8	2.8
1870.....	12,220	715	+184.9	5.9
1880.....	18,519	741	+3.6	4.0
1890.....	37,940	1,885	+154.4	5.0
1900.....	45,702	3,529	+87.2	7.7
1905.....	57,534	3,455	-2.1	6.0
1909.....	80,878	4,593	+32.9	5.7
1914.....	81,908	4,999	+8.8	6.1
1919.....	91,624	10,410	+103.2	11.4

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TABLE II.—Actual and relative number of women employed in the manufacture of glass and glassware—census years

Year	Adult employees	Women employees		
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1880.....	18,519	741	+3.6	4.0
1890.....	37,949	1,885	+154.4	5.0
1900.....	45,702	3,529	+87.2	7.7
1905.....	57,534	3,455	-2.1	6.0
1909.....	80,878	4,593	+32.9	5.7
1914.....	81,908	4,999	+8.8	6.1
1919.....	91,624	10,410	+108.2	11.4

EFFECTS OF APPLIED RESEARCH

Actual and relative number of women employed in the manufacture of paper and wood pulp—census years

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	6,785	2,960	-----	43.5
1860.....	10,911	4,392	+48.9	40.3
1870.....	17,185	6,153	+40.1	35.8
1880.....	24,965	7,648	+24.3	30.6
1890.....	30,782	6,767	-11.5	22.0
1900.....	49,477	7,930	+17.2	16.0
1910.....	78,406	9,909	+25.0	12.6
1914.....	88,899	9,391	-5.2	10.6
1919.....	121,973	10,852	+16.6	8.9

TABLE IV.—*Actual and relative number of women employed in the manufacture of rubber and rubber products—census years*

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	2,568	1,558	-----	60.7
1860.....	2,768	973	-37.5	35.2
1870.....	5,679	2,649	+172.3	46.6
1880.....	11,301	4,417	+66.7	39.1
1890.....	19,680	8,311	+88.2	42.2
1900.....	35,765	13,456	+61.9	37.6
1910.....	54,168	13,107	-1.1	24.2
1914.....	74,126	15,030	+14.7	20.3
1919.....	177,948	31,036	+106.6	17.4

UPON THE EMPLOYMENT OPPORTUNITIES OF WOMEN 53

TABLE V.—Actual and relative number of women employed in the manufacture of tobacco and tobacco products—census years

CHEWING AND SMOKING TOBACCO AND SNUFF

Year	Adult employees ¹	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	14, 236	1, 975	—	13. 9
1860.....	18, 859	2, 990	+51. 4	15. 9
1870.....	14, 610	4, 860	+62. 5	33. 3
1880.....	25, 662	10, 776	+121. 7	42. 0
1890.....	25, 506	10, 564	-2. 0	41. 4
1900.....	25, 714	11, 590	+0. 7	45. 1
1910.....	(²)	—	—	—
1914.....	24, 501	10, 889	—	44. 4
1919.....	18, 954	9, 339	-14. 2	49. 3

CIGARS AND CIGARETTES

1850.....	(³)	—	—	—
1860.....	7, 997	731	—	9. 1
1870.....	25, 181	2, 934	+301. 4	11. 7
1880.....	49, 207	9, 108	+210. 4	18. 5
1890.....	83, 666	24, 214	+165. 9	28. 9
1900.....	99, 930	37, 762	+56. 0	37. 9
1910.....	(²)	—	—	—
1914.....	152, 733	84, 067	—	55. 0
1919.....	158, 440	93, 341	+11. 0	58. 9

¹ Listed as "Tobacconists."

² All tobacco manufactures included in one total; namely, 174,610 persons employed, of whom 48.2 per cent were women.

³ Not reported.

TABLE VI.—Actual and relative number of women employed in canning and preserving fruits and vegetables, preserves and sauces, fish and oysters—census years

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....	211	86	—	40. 8
1860.....	(¹)	—	—	—
1870.....	6, 713	4, 109	—	61. 2
1880.....	26, 923	15, 693	+231. 9	58. 3
1890.....	55, 544	29, 842	+90. 2	53. 7
1900.....	54, 670	26, 436	-11. 4	48. 4
1910.....	144, 812	77, 593	+193. 5	53. 6
1914.....	192, 819	101, 766	+31. 2	52. 8
1919.....	188, 337	107, 807	+4. 9	54. 4

¹ Not reported.

EFFECTS OF APPLIED RESEARCH

TABLE VII.—Actual and relative number of women employed in the manufacture of electrical machinery, apparatus, and supplies—census years

Year	Adult employees	Women employees		
		Actual number	Per cent increase or decrease	Per cent of total
1850.....				
1860.....	13			
1870.....				
1880.....	1,204	72		6.0
1890.....	8,758	1,469	+1,940.3	16.8
1900.....	40,308	6,158	+319.2	15.3
1910.....	102,003	23,398	+280.0	22.9
1914.....	110,587	22,167	-5.3	20.0
1919.....	213,072	62,920	+183.8	29.5

TABLE VIII.—Women employed as stenographers and typists—census years

Year	Women stenographers and typists	
	Number	Per cent of all employees
1870.....	17	4.6
1880.....		
1890.....	121,270	68.7
1900.....	186,118	78.7
1910.....	263,318	83.1
1920.....	664,744	91.8

¹ U. S. Bureau of the Census. Ninth census: 1870. v. 1, p. 688.

² U. S. Bureau of the Census. Eleventh Census: 1890. Population, pt. 2, p. 308.

³ U. S. Bureau of the Census. Twelfth Census: 1900, Special reports—Occupations, p. cccxxii.

⁴ U. S. Bureau of the Census. Fourteenth Census: 1920, v. 4. Occupations, p. 43.

PUBLICATIONS OF THE WOMEN'S BUREAU

BULLETINS

[These bulletins and reports will be sent free of charge upon request]

- No. 1. Proposed Employment of Women During the War in the Industries of Niagara Falls, N. Y. 16 pp. 1918.
- No. 2. Labor Laws for Women in Industries in Indiana. 29 pp. 1918.
- No. 3. Standards for the Employment of Women in Industry. 7 pp. 1919.
- No. 4. Wages of Candy Makers in Philadelphia in 1919. 46 pp. 1919.
- No. 5. The Eight-Hour Day in Federal and State Legislation. 19 pp. 1919.
- No. 6. The Employment of Women in Hazardous Industries in the United States. 8 pp. 1919.
- No. 7. Night Work Laws in the United States. 4 pp. 1919.
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- No. 16. See Bulletin 40.
- No. 17. Women's Wages in Kansas. 104 pp. 1921.
- No. 18. Health Problems of Women in Industry. (Reprint of paper published in the Nation's Health, May, 1921.) 11 pp. 1921.
- No. 19. Iowa Women in Industry. 73 pp. 1922.
- No. 20. Out of print.
- No. 21. Women in Rhode Island Industries. 73 pp. 1922.
- No. 22. Women in Georgia Industries. 89 pp. 1922.
- No. 23. The Family Status of Breadwinning Women. 43 pp. 1922.
- No. 24. Women in Maryland Industries. 96 pp. 1922.
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- No. 33. Proceedings of the Women's Industrial Conference. 100 pp. 1923.
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- No. 36. Radio Talks on Women in Industry. 34 pp. 1924.
- No. 37. Women in New Jersey Industries. 99 pp. 1924.
- No. 38. Married Women in Industry. 8 pp. 1924.
- No. 39. Domestic Workers and Their Employment Relations. 87 pp. 1924.
- No. 40. State Laws Affecting Working Women. 55 pp. 1924. (Revision of Bulletin 16.)
- No. 41. The Family Status of Breadwinning Women in Four Selected Cities. 145 pp. 1925.
- No. 42. List of References on Minimum Wage for Women in the United States and Canada. 42 pp. 1925.
- No. 43. Standard and Scheduled Hours of Work for Women in Industry. 68 pp. 1925.
- No. 44. Women in Ohio Industries. 137 pp. 1924.
- No. 45. Home Environment and Employment Opportunities of Women in Coal-Mine Workers' Families. 61 pp. 1925.
- No. 46. Facts About Working Women—A Graphic Presentation Based on Census Statistics. 64 pp. 1925.
- No. 47. Women in the Fruit-Growing and Canning Industries in the State of Washington. (In press.)
- No. 48. Women in Oklahoma Industries. (In press.)
- No. 49. Women Workers and Family Support. 10 pp. 1925.
- No. 50. Effects of Applied Research Upon the Employment Opportunities of American Women. (In press.)
- No. 51. Women in Illinois Industries. (In press.)
First Annual Report of the Director. 1919.
Second Annual Report of the Director. 1920.
Third Annual Report of the Director. 1921.
Fourth Annual Report of the Director. 1922.
Fifth Annual Report of the Director. 1923.
Sixth Annual Report of the Director. 1924.
Seventh Annual Report of the Director. 1925.