Carnegie Endowment for International Peace

DIVISION OF ECONOMICS AND HISTORY

PRELIMINARY ECONOMIC STUDIES OF THE WAR

ECONOMIC EFFECTS OF THE WORLD WAR UPON WOMEN AND CHILDREN IN GREAT BRITAIN

SECOND (REVISED) EDITION

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IRENE OSGOOD ANDREWS

Assistant Secretary of the American Association for Labor Legislation

AND

MARGARETT A. HOBBS

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DIVISION OF ECONOMICS AND HISTORY JOHN BATES CLARK, DIRECTOR

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EDITED BY

DAVID KINLEY

President of the University of Illinois Member of Committee of Research of the Endowment

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ECCNOMIC EFFECTS OF THE WORLD WAR UPON WOMEN AND CHILDREN IN GREAT BRITAIN

Preliminary Economic Studies of the War-

EDITED BY DAVID KINLEY

President of the University of Illinois Member of Committee of Research of the Endowment

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- 24. DIRECT AND INDIRECT COSTS OF THE GREAT WORLD WAR. By Ernest L. Bogart, Professor of Economics, University of Illinois. (Revised edition of Study No. 5.)
- 25. GOVERNMENT WAR CONTRACTS. By John F. Crowell, Ph.D., LL.D.

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^{*}These numbers have not yet been published.

EDITOR'S PREFACE

The following work on the "Economic Effects of the War upon Women and Children in Great Britain," by Mrs. Irene Osgood Andrews, Assistant Secretary of the American Association for Labor Legislation, is the fourth in the series of preliminary war studies undertaken by the En-Mrs. Andrews' monograph is a mpatter study of the situation by one who has long been for with working conditions of women and children is country and abroad and the methods undertaken for improvement. The author points out the difficulties evil results of the hasty influx of women and children industrial fields vacated by men who had gone into h army, but reaches the conclusion that on the whole the permanent effects are likely to be good. Such a conclusion by an author whose sympathies with laboring women and children are deep and whose outlook is broad is hopeful and cheering.

In the opinion of the editor, Mrs. Andrews has done her country a service in preparing this monograph, for her recital of the difficulties and evils of the British readjustment will enable our people to meet the same crisis when it comes upon us, as it surely will if the war continues, in the light of the experience of our Allies. If we go about the matter intelligently in the light of this study, we should be able to avoid some of the difficulties and evils of British experiences in this matter and open the way for a larger industrial life to women, while maintaining and indeed even improving, as we should, the conditions under which they are called upon to work and live.

DAVID KINLEY, Editor.

AUTHOR'S PREFACE TO REVISED EDITION

Following the publication of the first edition, opportunity came in 1919 to visit again both England and Fives of and to secure first hand information concerning the are are of the war upon the economic position of women. And member of the commission sent by the Young Women's Christian Association to study the industrial opilook for women and children, there was occasion to interview many representative people in this field and to collect a large amount of recently published material bearing upon the subject.

The world conflict brought to women, in those countries where the industrial system was kept intact, an extraordinary invitation to active employment outside the home and in new occupations. In England and France millions of women were dislodged from their accustomed tasks and thrown into novel positions in industry, in trade and commerce and even in the professions. Many thousands have remained in the new occupations, and the vast majority will never be content to go back to their former places on the old terms.

The remarkable physical endurance of the women doing war work has been very generally recognized. This endurance has been attributed partly to the zeal of the women, but more particularly to higher wages, which enabled them to secure better food, clothing and lodging. Comfort from increased income was supplemented by canteens, welfare work and greater consideration in general for the health of wage earners.

Will woman's improved income level be permanent? Careful analysis shows that during the war, despite government pledges, women did not receive equal treatment with men in respect to wages. Moreover, while money wages in many cases were greatly increased, seldom did they keep pace with the advancing cost of living. Furthermore, it

became doubtful whether women were to be allowed to retain the more attractive positions if these were desired by men.

No one, since the war experience, doubts the skill and adaptability of women in performing a great number of ***sks formerly considered "men's work." With the extenandardization which British industry has adopted more places can be successfully filled by women. ual opportunity to secure positions, as well as equality of payment, appeals therefore to many thousands of women as merely a matter of justice. But such a new status for women, it is recognized, calls for more scientific methods in fixing wages. The old basis of sex, family obligation, tradition as to "men's work" and "women's work," must be abandoned. Instead, some definite rate for a specified occupation, and where possible specified qualifications as to ability for such work, must be adopted. Moreover, it is increasingly recognized that the national welfare demands that money wages must be at least equal to the cost of living.

Such a program would place men and women more nearly on a strictly competitive basis, with the awards given to the most efficient. It would practically eliminate the constant "undercutting" now taking place and would introduce a more scientific element into the present chaotic wage market.

The insistent need for a thoroughgoing revision as to methods of determining wage rates is recognized by Mrs. Sidney Webb in her minority statement in the Report of the War Cabinet Committee on Women in Industry, 1919. Mrs. Webb recommends for immediate adoption four main principles. (1) The establishment of a national minimum rate of wage; (2) the determination of a standard or occupational rate above the national minimum; (3) the adjustment of money wages to the cost of living; and (4) wherever possible the requirement of efficiency qualifications. As to children and "young persons" in Great Britain the Fisher Education Act already has indicated a greater emphasis on training and there is hope that their employment

will eventually become either subordinate to or, better still, a part of education.

The scarcity of labor now presents an appalling problem in several countries and one of the outstanding effects of the loss of human life in all war stricken nations is renewed interest in the protection of motherhood. In these countries measures are being adopted to conserve the lives of mothers and babies. Better medical and nursing care are recognized as essential, cash maternity benefits are increasing, maternity centers are being greatly extended and in England the endowment of motherhood is proposed.

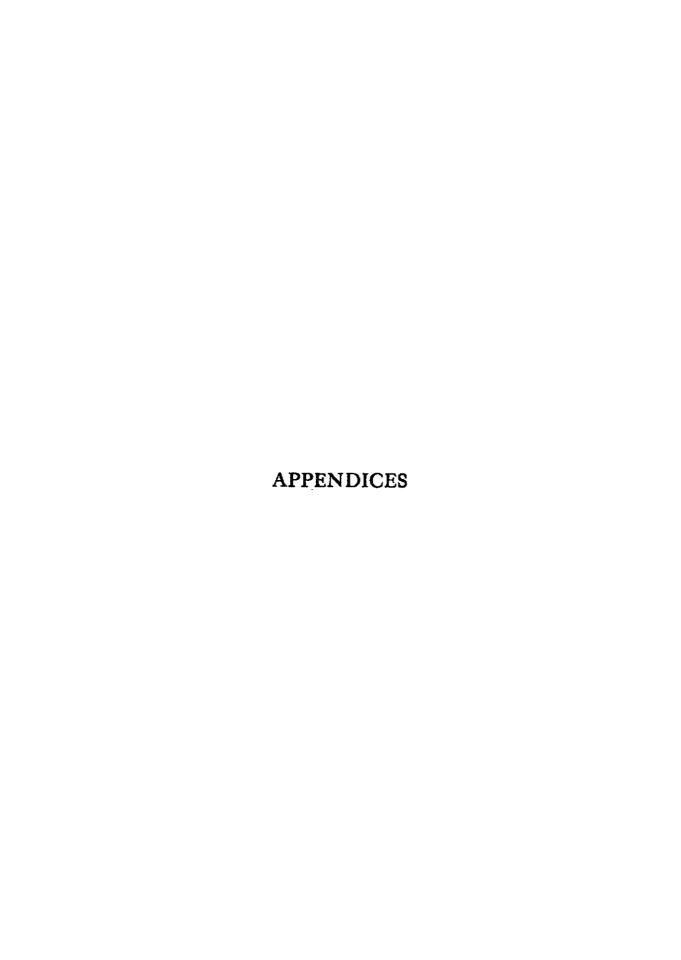
This revised monograph, while attempting to present a fairly complete history of the industrial experience of women and children during and immediately following thewar, is still necessarily tentative. Some years must elapse before it will be possible to measure the full effects of the world war upon the economic condition of women and children. This revision is brought out, however, at this time to supply a demand which quickly exhausted the first edition, and in the hope that it will be of service to those interested in the progress of women industrial workers.

IRENE OSGOOD ANDREWS.

New York City, April, 1920.

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Appendix A

The following table, from a "Report to the Board of Trade on the State of Employment in the United Kingdom," of February, 1915, compares the number of males and females on full time, on overtime, on short time, and unemployed, between September, 1914, and February, 1915.

STATE OF EMPLOYMENT IN SEPTEMBER, OCTOBER AND DECEMBER, 1914, AND FEBRUARY, 1915

(Numbers Employed in July = 100 per cent.)

	Septem	ber, 1914	Octo	ber, 1914	Decemi	ber, 1914	February, 1915		
	M	F	м	F	м	F	M	F	
Full time	60,2	53.5	66.8	61.9	65,8	66.6	68.4	75,0	
	3,913,000	1,337,500	4,342,000	1,547,500	4,277,000	1,665,000	4,446,000	1,875,000	
Overtime	3.6 234,000	2.1 52,500	5. 2 338,000	5.9 147,500	12.8 832,000	10,8 270,000	13.8 897,000	10.9 272,500	
Short time	26.0 1,690,000	36.0 900,000	17,3 1,124,500	26.0 650,000	10,5 682,50 6	19,4 485,000	6.0 390,000	12.6 3 15,000	
Contraction in Nos.	10.2 663,000	8.4 210,000	10.7 695,000	6.2 155,000	10.9 708,500	3.2 80,000	13.8 767,000	1.5 37,500	
Enlisted	8.8 572,000	*******	10.6 689,000	******	13.3 864,500		15.4 1.010.000	******	
Net displacement	-						-,,	,,	
(-) or replace	-1.4	8,4	-0.1	6.2	+2.4	—3.2	+3.6	—1.5	
ment (+)	91,0 00	210,000	-6,500	-155,000	+156.000	80,000	+243,000	-37,500	

Appendix B

The following table indicates some of the processes formerly reserved for men on which the factory inspectors found women employed by the end of 1915:

INDUSTRY	PROCESSES
LinoleumA	ttending cork grinding and embossing ma- chines, machine printing, attending stove, trimming and packing.
Woodworking-	
Brush makingF	ibre dressers, brush makers and on boring machinery.
	ight upholstery, cramping, dowelling, glueing, fret-work, carving by hand or machine, staining and polishing.
	In planing, moulding, sand-papering, boring, mortising, dovetailing, tenoning, turning and nailing machines. Taking off from circular saws: how making printing and painting
CooperageB	arrel making machines.
Paper millsh	n rag grinding and attending to beating and breaking machines, and to coating machines, calenders and in certain preparations and finishing and warehouse processes.
	(achine feeding (on platen machines and on
Wire rope	n stranding and spinning machines.
Chemical worksA	work.
Saan A	s soap millers and in general work.
PaintA	t roller mills, filling tins and kegs, labeling
	and nacking
Oil and cake millsTi	are packing, feeding and drawing off from chutes, attending to presses.
Flour millsT	erching to presses.
Bread and biscuitsA	ttending to dough-breaks, biscuit machines,
	and at the ovens assisting bakers.
TobaccoLe	and at the overs assisting bakers. eaf cutting, cigarette making, soldering, truck- ing and warehouse work.
RubberA	t washing machines, grinding mills, dough
Malting C.	rolls, solutioning, motor tube making.
MaltingSI	preating and general work.
	ask washing, tun-room work, beer bottling and bottle washing.
Distilleries Ir	the mill and veget houses
Cement	Hending weighing machines toodsing
TOURGIES	ite making moulding
Tanning and curryingA	t the pits, in finishing and drying, and in
Woolen millsBe	oiling, setting up, buffing and staining, earning and overlooking, attending drying machines, carding, pattern weaving.

WOMEN AND CHILDREN IN GREAT BRITAIN 233

INDUSTRY	PROCESSES
Jute mills	On softening machines, dressing yarn, calen
Cotton mills	deringIn blowing room on spinning mules, beaming
	twisting and drawing, and in warehouseFolding and warehouse work.
Lace Print, bleach and dye work:	Threading. s Beetling, assisting printers at machines, ware

Appendix C

The following tables from the second report of the British Association for the Advancement of Science bring out in detail, first, the gradual disappearance of unemployment and short time and the increase of women's numbers in industry from September, 1914, to April, 1916; second, the changes in numbers of women in the various occupations, both industrial and non-industrial in December, 1915, and April, 1916, compared with July, 1914, and, third, similar details as to the number of women who were undertaking "men's work."

STATE OF EMPLOYMENT OF WOMEN AT VARIOUS DATES SINCE THE OUT-BREAK OF WAR, COMPARED WITH STATE OF EMPLOYMENT IN JULY, 1914

("Industrial" employment only. Numbers employed July, 1914 = 109 per cent.)

	Sept., 1914	Oct., 1914	Dec., 1914	Feb., 1915	Oct., 1915	Dec., 1915	Feb., 1916	April, 1916
Contraction (—) or expan- sion (+) in numbers								
employed	8.4	6.2	—3.2	-1.5	+7.5	+9.2	+10.9	+13.2
Employed on overtime	2,1	5.9	10.8	10.9	13.9	14.5	12.8	
Employed on short time	36.0	26.0	19.4	12.6	5.6	6.1	4,6	****

EXTENSION OF THE EMPLOYMENT OF WOMEN IN DECEMBER, 1915, AND APRIL, 1916

Occupations Group	Estimated Industrial Papulation. July, 1914, Females		(+) or se () nales in April, 1916
Building Mines and Quarries Metal Trades Chemical Trades Textile Trades Clothing Trades Food Trades Paper and Printing Trades Wood Trades Other Trades	7,000 9,000 144,000 40,000 851,000 654,000 170,000 169,000 39,000 96,000	+ 3,600 + 800 + 71,700 + 19,400 + 29,700 + 6,700 + 31,700 - 7,400 + 25,400	+ 6,400 + 2,300 + 126,900 + 33,600 + 27,800 + 11,700 + 30,900 - 900 + 13,200 + 35,700
All "Industrial" Occupations	2,180,000	+196,500	+287,500
Commercial Professional Banking and Finance Public Entertainment	474,500 68,500 9,500 172,000	*******	+181,000 + 13,000 + 23,000 + 14,000
Agriculture Transport Civil Service Arsenals, Dockyards, etc. Local Government (incl. Teachers) Domestic Service	9,500 63,000 2,000 184,000	*******	+ 16,000 + 29,000 + 13,000 + 21,000
Total for "Non-industrial" Occupations.	983,000	******	+310,000
Total for all Occupations	3,163,000	*******	+597,500

EXTENT OF SUBSTITUTION OF FEMALE FOR MALE WORKERS IN DECEMBER, 1915, AND APRIL, 1916.

	Estimated number of Females on work substitution of Males' work					
Occupations Group	December, 1915	April, 1916				
Building	6.100	8,800				
Mines and Quarries	2,700	4.400				
Metal Trades	70,300	117,400				
hemical Trades	9,600	16,200				
Cextile Trades	57,600	73,400				
Nothing Trades	30,400	42,300				
cod Trades	29,500	35,000				
aper and Printing Trades	22,500	23,600				
Wood Trades	11.400	17,400				
Other Trades	27,000	37,400				
All "Industrial" Occupations	267,100	375,900				
Commercial		189,000				
rofessional		16,000				
Sanking and Finance		25,000				
ublic Entertainment		32,000				
griculture	*******					
ransport		18.000				
livil Service		31.000				
rsenals, Dockyards, etc.		13,000				
ocal Government (incl. Teachers)		37,000				
Domestic Service		*****				
Total for "Non-industrial" Occupations	*****	361,000				
Total for all Occupations		736,900				

Appendix D

The following table, compiled from the quarterly reports in the Labour Gasette and a special report of the Board of Trade, gives the increase in the employment of women between April, 1916, and July, 1918, for the most of the important occupational groups. It can not be compared directly with the similar tables, previously given, prepared by the British Association for the Advancement of Science, because of slight differences in the estimates of the numbers employed in July, 1914.

EXTENSION OF THE EMPLOYMENT OF WOMEN IN THE UNITED KINGDOM, APRIL, 1916-JULY, 1918 (Classified by employers' position, not by nature of work.)

	Estimated No. Empl. July. 1914	Estimated increase since July, 1914									Per cent of	
		April, 1916	July, 1916	Oct., 1918	Jun., 1917	April, 1917	July, 1917	Oct., 1917	Jan., 1918	April, 1918	July, 1918	july, 1914- July, 1918
Industrial Occupations Government Establishments Commercial Professional (mainly clerks) Banking, Finance (mainly clerks) Hotels, Theaters, etc. Agriculture (perm. labor Gt. Britain) Transport (not municipal) Civil Service Local Government Other	2,176,000 2,000 496,000 50,500 9,500 181,000 17,000 17,000 198,000	275,000 25,000 166,000 13,000 23,000 12,000 14,000 23,000 21,000	361,000 79,000 240,000 14,000 32,000 20,000 35,000 35,000 30,000	393,000 117,000 268,000 15,000 37,000 16,000 41,000 67,000 34,000	423,000 147,000 274,000 18,000 43,000 10,000 14,000 51,000 44,000	453,000 198,000 307,000 21,000 50,000 13,000 62,000 89,000 47,000	518,000 202,000 324,000 20,000 54,000 22,000 23,000 72,000 98,000 49,000	\$29,000 211,000 333,000 \$0,000 \$9,000 28,000 7,000 77,000 116,500 \$1,500	533,000 207,500 343,000 50,000 61,000 26,000 76,000 76,000 124,000	537,000 197,000 354,000 57,000 63,000 25,000 9,000 78,000 159,000 53,000	565,000 223,000 364,000 65,000 39,000 33,000 168,000 52,000 150,000	26.0 11,200.0 73.4 4.0 687.0 21.5 41.3 255.0 26.5

Not owned by government.
 Includes arsenals, docks, government shell filling factories, etc.
 Includes teachers and transportation workers for municipalities.

Appendix E

The following table, compiled from the Labour Gazette, and a special report of the Board of Trade, gives a quarterly estimate of the number of women replacing men for the period between April, 1916, and April, 1918.

NUMBER OF FEMALES SUBSTITUTED FOR MALE WORKERS IN THE UNITED KINGDOM IN CERTAIN OCCUPA-TIONS, BY QUARTERS, APRIL, 1916-APRIL, 1918

April, 1918	July. 1916	Oct., 1916	Jan., 1917	Apri), 1917	Jaly, 1917	Oct., 1917	Jan., 1918	April, 1918	Per cent No. of substitutes in April, 1918, is of total No. employed in July, 1914
213,000 13,000 152,000 12,000 21,000 27,000 27,000 24,000 30,000 18,000	264,000 79,000 226,000 15,000 31,000 31,000 35,000 41,000 26,000	314,000 117,000 264,000 15,000 37,000 30,000 20,000 41,000 64,000 31,000	376,000 139,000 278,000 17,000 42,000 31,000 23,000 52,000 73,000 40,000	187,000 308,000 20,000 48,000 35,000 32,000 64,000 88,000	191,000 328,000 21,000 53,000 38,000 43,000 74,000 99,000	490,000 202,000 337,000 22,000 55,000 44,500 78,500 107,000 44,000	\$03,000 197,000 342,000 22,000 57,000 45,000 31,000 78,000 123,000 44,000	531,000 187,000 352,000 22,500 59,500 44,500 40,000 79,500 153,000 47,000	24.4 9,350.0 70.9 44.5 626.3 24.5 50.0 21.3 231.8 23,7
	213,000 13,000 152,000 12,000 21,000 27,000 37,000 24,000 30,000	213,000 264,000 13,000 79,000 152,000 226,000 12,000 31,000 27,000 31,000 27,000 35,000 24,000 35,000 30,000 41,000 18,000 26,000	213,000 264,000 314,000 13,000 79,000 117,000 152,000 226,000 264,000 12,000 15,000 37,000 27,000 31,000 30,000 37,000 35,000 20,000 24,000 35,000 41,000 30,000 41,000 64,000 18,000 26,000 31,000	213,000 264,000 314,000 376,000 13,000 79,000 117,000 139,000 12,000 15,000 15,000 17,000 21,000 31,000 37,000 42,000 27,000 31,000 30,000 31,000 37,000 32,000 31,000 41,000 52,000 30,000 41,000 64,000 73,000 18,000 26,000 31,000 40,000	213,000 264,000 314,000 376,000 438,000 13,000 79,000 117,000 139,000 187,000 152,000 226,000 264,000 278,000 308,000 21,000 31,000 37,000 42,000 44,000 48,000 27,000 31,000 31,000 31,000 31,000 32,000 27,000 33,000 20,000 23,000 32,000 24,000 35,000 41,000 52,000 52,000 52,000 64,000 30,000 41,000 64,000 73,000 88,000 18,000 26,000 31,000 41,000 40,000 41,000	213,000 264,000 314,000 376,000 438,000 464,000 13,000 79,000 117,000 139,000 187,000 191,000 152,000 226,000 264,000 278,000 308,000 328,000 21,000 31,000 37,000 42,000 48,000 53,000 27,000 31,000 37,000 42,000 48,000 53,000 37,000 35,000 30,000 31,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 41,000 52,000 64,000 74,000 30,000 41,000 64,000 73,000 88,000 99,000 18,000 26,000 31,000 41,000 40,000 41,000 43,000	213,000 264,000 314,000 376,000 438,000 464,000 490,000 13,000 79,000 117,000 139,000 187,000 191,000 202,000 152,000 226,000 264,000 278,000 308,000 328,000 337,000 12,000 15,000 17,000 20,000 21,000 22,000 21,000 37,000 42,000 48,000 53,000 53,000 55,000 27,000 31,000 30,000 31,000 35,000 38,000 38,000 44,500 37,000 35,000 41,000 52,000 64,000 74,000 78,500 30,000 41,000 64,000 73,000 88,000 99,000 107,000 18,000 26,000 31,000 40,000 41,000 43,000 44,000	213,000 264,000 314,000 376,000 438,000 464,000 490,000 503,000 13,000 79,000 117,000 139,000 187,000 191,000 202,000 197,000 152,000 226,000 264,000 278,000 308,000 328,000 337,000 342,000 12,000 15,000 15,000 17,000 20,000 21,000 22,000 22,000 21,000 31,000 37,000 42,000 48,000 53,000 55,000 57,000 27,000 31,000 30,000 31,000 35,000 38,000 38,000 44,500 45,000 37,000 35,000 35,000 32,000 32,000 32,000 32,000 33,000 41,000 35,000 35,000 36,000 3	213,000 264,000 314,000 376,000 438,000 464,000 490,000 503,000 531,000 13,000 79,000 117,000 139,000 187,000 191,000 202,000 197,000 187,000 152,000 226,000 264,000 278,000 308,000 328,000 337,000 342,000 352,000 12,000 15,000 15,000 17,000 20,000 21,000 22,000 22,000 22,000 21,000 31,000 37,000 42,000 48,000 53,000 55,000 57,000 59,500 27,000 31,000 30,000 31,000 31,000 33,000 33,000 33,000 33,000 44,500 37,000 33,000 33,000 31,000 32,000 32,000 32,000 33,000 31,000 40,000 24,000 35,00

Not owned by government.
 Includes arsenals, docks, government shell filling factories, etc.
 Includes teachers and transportation workers for municipalities.

Appendix F

ESTIMATED NUMBER OF FEMALES DIRECTLY REPLACING MALES IN VARIOUS BRANCHES OF INDUSTRY IN JANUARY, 1918.

(Compiled from the Report of the War Cabinet Committee on Women in Industry.)

Trade	
Metai	195,000
Chemical	35,000
Textile	64,000
Clothing	43,000
Food, Drink and Tobacco	60,000
Paper and Printing	21,000
Wood, China and Earthenware, Leather	23,000
Other	62,000
Government Establishments	
Total	

ESTIMATED NUMBER OF FEMALES DIRECTLY REPLACING MALES IN VARIOUS BRANCHES OF COMMERCE IN APRIL, 1918.

(Compiled from the Report of the Board of Trade on the Employment of Women in April, 1918.)

Wholesale and Retail Drapers, Haberdashers, Clothiers, etc	41,000
Wholesale and Retail Grocers, Bakers, Confectioners	92,000
Wholesale and Retail Stationers and Booksellers	16,000
Wholesale and Retail Butchers, Fishmongers, Dairymen	30,000
Retail Chemists	
Retail Boot and Shoe Dealers	8,000
Total (including some not specified above)	352,000

Appendix G

ESTIMATE BY THE BRITISH WAR CABINET COMMITTEE ON WOMEN IN INDUSTRY ON AVERAGE WEEKLY EARNINGS OF WOMEN IN VARIOUS OCCUPATIONS AT THE END OF THE WAR.

Earnings under 25s. weekly:

Dressmakers, milliners (first five years), laundry workers, pottery workers (most grades), knife girls and kitchen hands in refreshment houses.

Earning between 25s. and 30s. weekly:

Cutlery workers, soap and candle makers (unskilled), corner tenters (cotton), woolen and worsted weavers, backwashers (Scotch Tweed), dyers and cleaners, biscuit makers, cigarette makers, pottery workers (certain grades), waitresses in refreshment depots.

Earning between 30s. and 35s. weekly:

Ammunition makers (women's work), chainmakers, salt packers, fine chemical workers, soap makers (most operations), card-room operatives (cotton), clothing machinists, workers in grain-milling and brewing, cigar makers, shop assistants (co-operative).

Earning between 35s. and 40s. weekly:

Workers in the light casting trade, chemical laborers, big tenters and ringspiners (cotton), wool combers, tailoring fitters and cutters, boot operatives, bakery workers, jigger women in potteries, tanners, shop assistants (large stores).

Earning between 40s. and 45s. weekly:

Workers in engineering, chemicals (shift work) and explosives; textile dyers, tobacco machinists, motor drivers (for shop), railway carriage cleaners, telephonists, railway clerks.

Earning between 45s, and 50s weekly:

Cloth lookers (cotton), hosiery machinists, web dyers, gas index readers and lamp-lighters, railway porters, ticket collectors, telegraphists.

Earning between 50s, and 60s, weekly: Ledger clerks, Civil Service clerks (Class I).

Earning over 60s:

Women on skilled men's work in engineering omnibus conductors (London), gas workers (heavy work for South Metropolitan Gas Co.).

Appendix H

NUMBER OF ORDERS MODIFYING THE LABOR LAWS, ISSUED FROM AUGUST 4, 1914, TO FEBRUARY 19, 1915

(Report of the Chief Inspector of Factories and Workshops for 1914, p. 56.)

Textile:	Clothing:	
Wool 748	Uniforms 5	ŀ
Hosiery	Fur coats	•
Cotton 159		ŧ,
Flax	Caps	21
Hemp and jute	Shirts	7
Silk 8	Bedding	3.
Dyeing and finishing 37	Surgical dressings	21
Leather and leather equipment 105	Tobacco	K
Canvas equipment	Food 3	37
Munitions 151		37
Shipbuilding 15	Camp equipment	ŝź
Electrical supply 35	Wire and wire netting 3	34
Metal accessories 141	Wagons, etc 3	34
Machinery 57 Wood 44	Rubber 1	ić
Wood 44	Miscellaneous 7	
		_

Appendix I

The following list of modifications of the hour laws in 1915 was compiled from the Report of the Chief Inspector of Factories and Workshops for 1915.

Industry	Persons Affected	Latitude
Munitions.	Women. Boys over 14. Girls over 16.	As in 1914.
Woolen and worsted (from May).	Women and young persons.	6 hours weekly overtime, in 2-hour shifts on 3 days or 1½ hours on 4 days. No overtime on Saturday.
Weaving (July-Nov.).	Women and young per- sons over 16.	8 hours weekly overtime in 2-hour shifts on 4 days.
Hosiery.	Protected persons.	1½ hours overtime on 4 days, or 1 hour on 5 days, but not on Satur- day or Sunday.
Cotton.	Protected persons.	6 hours overtime weekly,
Margarine.	Not stated.	Not stated.
Window shades.	Not stated.	Not stated.
Flax.	Not stated.	Not stated.
Rope walks.	Not stated.	6 hours overtime weekly.
Bleach and dye works (surgical dressings; raising and finishing flannelette).	Not stated.	6 hours overtime weekly.
Tanning and currying.	Women. Boys over 14.	4 hours overtime weekly.
Canvas equipment. Shipbuilding.	Not stated. Boys over 14.	5 hours overtime weekly. (a) Overtime, 5 hours a week for boys under 16; 7½ hours for those over 16.
		(b) Eight-hour shifts. (c) Day and night shifts.
Bread baking.	(a) Boys 17.	(a) Night shift (not exceeding 9 hours).
	(b) Boys 15 and over.	(b) Any period of 9 hours between 4 a.m. and 8 p.m.
Pastry baking (Scot- land).	(a) Women and boys of 17.	(a) Night shift (not exceeding 9 hours).
	(b) Boys 15 and over.	(b) Any period of 9 hours between 4 a.m. and 8 p.m.
Chocolate.*	Women.	When necessary, on account of hot weather, between 6.a.m. and 10 p.m. for two spells of 4 hours each, one in the morning and one in the afternoon.
Leather equipment.*	Women and young per- sons over 16.	Overtime 1½ hours per day.
Aerated waters.*	Women.	Extension of overtime allowed by S. 49.
Glass.	Boys over 13 (education- ally qualified).	Extension of S. 55.

^{*}The order expired and was not renewed.

ECONOMIC EFFECTS OF THE WAR

industry	Persons Affected	Latitude
	. -	
Oil and cake mills.	Women and boys over 16.	8-hour shifts, or day and night shifts.
Flour mills.	.Women and boys over	8-hour shifts, or day and night shifts.
Toys and games.*	Women.	Overtime as allowed by S. 49 and night shifts during the Christmas season.
Dairies.	Women and young per- sons.	5 hours on Sundays, with weekly limit of 60 hours. No other over- time during the week.
Paper mills.	Women.	8-hour shifts, or day and night shift.
Pottery.	Not stated.	Suspension of certain regulations.
Sandbags.*	Women and young persons.	Overtime, 3 hours per week.
Cement (Essex and Kent).	Women.	Night shift.
Waterproof capes (War Office contracts).*	Women and young persons over 16.	 Overtime, 4½ hours per week. Permission for Christians to work on Saturday and Jews on Sunday.
Manchester warehouses.	Women and boys over 16.	Overtime, 2 hours on not more than 4 days a week and on not more than 12 days in any 4 weeks.
Lace and patent net fac- tories (processes of threading, brass bob- bin winding, jacking off and stripping).	Women, girls over 16; boys over 14.	 Different periods of employment for different workers. Where (1) is impracticable over- time 1½ hours per day, but with a weekly limit of 60 hours exclusive of meal times.
Non-textile works engaged on work for the Crown, or on work required in the national interest.†	Women, girls over 16; boys over 14.	Rearrangement of the statutory hours but period of employment not to exceed 14 hours on any one day, or 60 hours (exclusive of meal times) in any week.

^{*}The order expired and was not renewed.

† A new order, which was allowed in all non-textile works not otherwise provided for.

It allowed greater elasticity than was provided by the Factory Acts, and permitted, for example, such moderate overtime during the week as could be compensated by an earlier stop on Saturdays.

Appendix J

GENERAL ORDER REGULATING OVERTIME ISSUED BY THE HOME OFFICE SEPTEMBER 9, 1916.

The following is the full text of the parts of the order applying to women:

Scheme A. (Three Shifts.)

This scheme applies to women and female young persons of 16 years of age and over, and male young persons of 14 years of age and over. Three shifts, none of which may be longer than 10 hours, may be worked in each period of 24 hours, subject to the following conditions:

period of 24 hours, subject to the following conditions:
(1) Each worker shall have one break of 24 hours or more in every week, or of 32 hours or more in every alternate week, or of 40 hours or more in

every third week.

(2) Each worker shall have an interval of two unemployed shifts between

each two shifts of employment.

(3) An interval of not less than half an hour shall be allowed if the shift is 8 hours or less, and an interval of not less than one hour if the shift is more than 8 hours.

Provided that the superintending inspector of factories may authorize, subject to compliance with condition (1) and to such other conditions as he may impose, different arrangements as regards hours of work and breaks at the week end for the purpose of changing over the shifts.

Scheme B. (Two Shifts.)

This scheme applies to women and female persons of 16 years of age and over and male young persons of 14 years of age and over, provided that the employment in the night shift of girls under 18 or boys under 16 years of age shall be subject in each case to the approval of the superintending inspector of factories. Two shifts of 12 hours each may be worked, subject to the following conditions:

(1) No person shall be employed more than 6 turns by day or more than

6 turns by night in any week.

(2) Unless otherwise sanctioned by the superintending inspector no person shall be employed on Sunday except in a night shift commencing on Sunday evening or ending on Sunday morning.

(3) The total hours worked per week (exclusive of meal times) shall not exceed 60 provided that in the case of male young persons 16 years of age and over the total hours worked per week (exclusive of meal times) may be 63.

(4) Intervals for meals amounting to not less than 1½ hours shall be allowed in the course of each shift, of which in the case of the night shift one-fourth of an hour or more shall be allowed as a break within 4 hours of the end of the shift.

(5) Each worker shall have an interval of one unemployed shift between

each two shifts of employment,

Providing that the superintending inspector may authorize, subject to such conditions as he may impose, a system of one long shift, not exceeding 13 hours with a corresponding reduction in the other shift, so that the average weekly total of hours shall not exceed the limits specified above in paragraph (3).

Scheme C. (Rearrangement of Statutory Hours.)

This scheme applies to women and female young persons of 16 years of age and over, and male young persons of 14 years of age and over.

In the case of such women and young persons the hours of work and intervals for meals allowed by the (factory and workshop) act may be arranged, subject to the following conditions:

(a) The total hours worked per week (exclusive of intervals for meals)

shall not exceed 60.

- (b) The daily period of employment (including overtime and intervals for meals)

(1) Shall not commence earlier than 6 a.m. or end later than 10 p.m.
(2) Shall not exceed 14 hours.
(c) Intervals for meals amounting to not less than 1½ hours shall be allowed during the period of employment, with an additional half an hour if the period of employment is more than 131/2 hours.

(d) No overtime shall be worked on Saturday.

Naval Ship Repairing Work.

· In cases of special emergency women, female young persons of 16 years of age and over, and male young persons of 14 years of age and over, employed on repair work for His Majesty's ships may be employed for special hours on any day of the week on the express instructions of the senior naval officer in charge and subject to such conditions as he may lay down as re-

gards intervals for meals and rest, provided that in any case—
(1) No male young person over 16 years of age shall be employed for more than 671/2 hours in the week (exclusive of intervals for meals and rest).

(2) No other young person or woman shall be employed for more than 65 hours in the week (exclusive of intervals for meals and rest).

Miscellaneous Provisions.

No woman or young person shall be employed continuously at any time for more than five hours without an interval of at least half an hour, except that where not less than one hour is allowed for dinner, an afternoon spell of six hours may be worked, with an interval of quarter of an hour only for tea, if the factory inspector is satisfied that adequate provision is made for the worker to obtain tea in the works and for tea to be actually ready for them as soon as they stop work.

If work commences before 8 a.m. and no interval is allowed for breakfast, an opportunity shall be given to take refreshment during the morning.

A woman or young person shall not be allowed to lift, carry, or move anything so heavy as to be likely to cause injury to the woman or young person.

Different schemes of employment may be adopted and different intervals

for meals fixed for different sets of workers.

Employment on night shifts shall be subject to the provision, to the satisfaction of the factory inspector, of proper facilities for taking and cooking meals, and in the case of female workers, for their supervision by a welfare worker or a responsible forewoman.

Circular letter 198802 to accompany Home Office Order of Sept. 9, 1916.

No requirement is laid down in the order that workers on the night shift shall change periodically to the day shift. The matter is left to the individual employers to determine in consultation with their work-people. Care should be taken in selecting women and young persons for night work. They should not be put on night work indiscriminately.

Appendix K

DISTRIBUTION OF YOUNG PERSONS BETWEEN DIFFERENT EMPLOYMENTS IN JULY, 1914, OCTOBER, 1917, AND JANUARY, 1918

(Compiled from Ministry of Reconstruction, Juvenile Employment during the War and After, pp. 10, 11, 77.)

	Total	Boys and Girls Un	ider 18	7	Total Boys Under	18	Total Girls Under 18			
	Estimated numbers employed Oct., 1917	Estimated numbers employed in Jan., 1918	Increase or decrease July, 1914- Jan., 1918	Estimated numbers employed Oct., 1917	Estimated numbers employed in Jan., 1918	Increase or decrease July, 1914- Jan., 1918	Estimated numbers employed Oct., 1917	Estimated numbers employed in Jan., 1918	Increase or decrease July, 1914- Jan., 1918	
Building Mines and Quarries Metal Trades Chemical Trades Textile Trades Pood, Drink and Tobacco. Clothing Trades Paper and Printing. Wood Trades Other Industries Industries Total	50,000 168,000 404,000 47,000 329,000 96,000 169,000 75,000 54,000 80,000	48,000 178,000 409,000 48,000 324,000 96,000 169,000 74,000 55,000 81,000	- 12,300 + 11,300 + 173,800 + 22,300 - 15,000 + 7,200 - 19,600 - 11,700 + 10,000 + 10,000	44,000 164,000 296,000 22,000 116,000 43,000 45,000 30,000 34,000 43,000 837,000	42,000 174,000 303,000 22,000 114,000 43,000 45,000 30,000 34,000 44,000	- 17,000 + 9,000 + 113,000 + 7,500 - 10,000 + 3,000 - 3,000 - 10,000 - 500 - 1,000 + 91,000	6,000 4,000 108,000 25,000 213,000 53,000 124,000 45,000 20,000 37,000	6,000 4,000 106,000 26,000 210,000 53,000 124,000 44,000 21,000 37,000	+ 4,700 + 2,250 + 60,800 + 14,850 - 5,000 + 4,200 - 16,550 - 1,750 + 10,500 + 11,000 + 85,000	
Municipal gas, water, electricity. Government establishments Agriculture Transport Finance and commerce Professional occupations Hotels, cinemas, theaters Post Office Other civil service Local government (including education, but excluding Municipal trams, water, gas, electricity)	4,000 32,000 136,000 101,500 427,000 29,000 30,000 24,000 13,500	3,500 30,000 130,000 102,500 416,000 27,000 32,000 23,000 14,500	+ 2,000 + 27,000 - 9,000 + 25,100 + 94,000 + 7,000 - 4,000 + 11,400 + 4,500	3,000 22,000 118,000 89,500 224,000 17,000 10,000 4,500	3,000 21,000 113,000 90,500 216,000 17,000 19,000 9,000 4,500	+ 1,500 + 18,000 - 14,000 + 14,400 - 22,500 + 3,000 + 6,500 - 7,800 + 1,500 + 2,400	1,000 10,000 18,000 12,000 203,000 11,000 13,000 14,000 9,000	500 9,000 17,000 12,000 200,000 10,000 13,000 14,000 10,000	+ 3n0 + 9,000 + 5,000 + 10,700 + 116,500 + 5,000 + 3,800 + 9,900 + 2,100	
Grand Total	2,287,000	2,278,000	+342,000	1,353,000	1,354,000	+ 94,000	934,000	924,000	- -248,000	

Appendix L

POSTWAR EMPLOYMENT

(Tables Compiled from Labour Gazette, May, 1919, pp. 287-288; October, p. 418; November, p. 473.)

 Number of Out-of-Work Donation Policies Outstanding Weekly for Ten Months of 1919.

Week	. 1			Civilians	Demobilized Members of H. M. Por					
	Ending		Girls	Total	Mea	Women	Total	Grand Total		
an.	3	101,390	16,988	224,955	13,374	356,707	23,938	50	23,988	380,69
	ō	119.315	16,462	265,479	16,365	417,621	31,543	88	31,631	449,25
	7	139.113	18,131	303.813	18,018	479.075	40,400	131	40,531	519,60
	4	156,671	20.543	343,742	22,259	543,215	47,209	170	47,379	590.5
un. 3	1	177,361	22,562	399,864	25,362	625,149	53,316	238	53,554	678.7
	Ž	191.371	24,538	427,734	26.790	670,433	63,277	380	63,657	734,0
eb. 1	4	212,205	26.752	452,810	28,183	719,950	84,298	394	84,692	804,6
eb. 2	1	218,278	28,195	470,294	31.544	748.311	132,471	841	133,312	881,6
eb. 2	8	227.83 6	28.019	494,471	32,037	782,363	165,429	828	166,257	948.6
lar.	7	234,402	27,356	494,365	34,398	790,521	200,686	1,025	201,711	992,2
iar. 1	4	208,540	26,327	485,784	31,070	751,721	235,737	1,161	237,898	988,6
	1	207,973	27.567	474,452	28,082	738,074	264,257	995	265,252	1,003,3
er. 2	8 1	209,486	26.461	488,655	29,380	753,982	305,251	1,012	306,263	1,060.2
Dr.	4	214,263	26.148	469,550	30,189	740,155	336,570	961	337,531	1,077,6
	1	217,538	26,093	455,736	30,134	729,501	347,895	917	348,812	1,078,3
	18	210,119	23,882	452,144	29,279	715,424	369,992	1,013	371,005	1,086.4
	15	215,687	23,679	443,941	28,964	712,271	379,799	1,258	381.057	1.093,3
ay .	2	214,761	23,040	422,890	29,242	689,933	402,151	1,316	403,467	1,903,4
	9	191,651	19.175	366,536	20,871	598,233	*****		409,959	1,008.1
ay 1	lo I	178,284	16,845	312,373	17,023	\$24,525			403,356	927.8
	3	164,569	14,988	250,010	14,869	444,436	4,,,,,		402,036	846,4
	10	150,250	12,912	207,897	13,231	384,290			386,921	771.2
ıne	6	135,317	10,405	169,621	9,880	325,223		*****	385,652	710.8
	3	123,134	8,439	146,578	7,910	286,061		*****	378,768	664,8
	90	116,158	7,551	132,649	7,491	263,849	*****	*****	381,247	645.0
	7	106,661	6,615	113,462	6,544	233,282		*****	372,843	606,1
	4	100,270	5,905	100,576	6,877	212,828			366,197	579,0
	12	96,472	5,341	91,413	6,155	199,381			365,768	565.1
	8	92.762	4,985	83,755	5,707	187,209		******	362,982	550,1
	5	93,828	5,226	72,813	5,354	177,221	4	*****	363,663	540.8
	1	100,228	6,529	73,878	6,176	186,811	,,,,,,		366,671	553,4
	8	98,298	6,245	64,029	5,673	174,245	*****	******	362,741	536.9
	5	94,863	6,669	61,065	6,093	168,690	*****		361,833	530.5
	2	92,345	6,267	55,526	5,182	159,320			350,755	\$10.0
	9	83,035	5,006	49,038	4,953	141,132		*****	336,952	478.0
	3	72,113	4,008	40,701	3,041	119,863	*****		326,751	446.6
	2	66.686	3,236	36,230	2,471	108,623			311,959	420.5
	9	63,557	3,111	34,448	2,334	103,450			305,253	408.7
	6	62.435	3,151	32,915	2,230	100,731			302,272	403.0
	? '	70,589	4.371	29,622	2,586	107,168			337,948	445.1
	4	86,036	6,551	30,396	2,672	125,655			343,672	469.3
ct. 3	11	94,058	7,349	30,940	2,838	135,185	1		344,242	479.4

 $^{^4}$ Figures for Oct. 3 and 10, on account of special arrangements made during the railway strike of these weeks, are not given.

2. Number of Unemployed Women and Girls by Industries. a. In Insured Industries.

Trade	Number Insured January 12, 1919	Number Unemployed April 25, 1919	Number Unemployed October 31, 1919
Building	6,152	950	55
Construction of Works	1,825	46	1
Shipbuilding Engineering and Ironfounding	8,810	522	21
Engineering and Ironfounding	419,524	35,614	1,426
Construction of Vehicles	17,577	6,336	107
Sawmilling	812	331	17
Other	171	1	
Total Insured Under Act of 1911	454,871	43,800	1,627
Iron and Steel Manufacture	12,805	400	18
Cinplate Manufacture	3,550	92	23
Wire Manufacture	9,431	828	45
Anchors, Chains, Nails, Bolts, Nuts, Rivets, etc	12,690	2,888	162
Brass	8,413	219	6
Copper, Tin, Lead, Zinc, etc.	10,561	738	62
Hardware and Hollowware	49,749	5,437	228
Tools, Files, Saws, Implements, Cutlery	6,432	827	64
Clocks, Plate, Jewelry	6,175	388	27
Needles, Pins, Typefounding, Dyes, etc.	6,664	336	15
Electrical, Scientific, etc., Appliances and Apparatus	28.866	2.152	151
Miscellaneous Metal	5,185	1.455	70
Ammunition and Explosives	197,128	5.818	100
Chemicala	34,071	2,631	193
Leather and Leather Goods	31,313	2,679	162
Brick, Tile and Artificial Building Material	9.804	1,172	59
Sawmilling, Machined Woodwork and Wooden Cases	30,176	2,049	51
Rubber and Manufactures Thereof	35,319	2,369	151
Total insured Under Act of 1916	496,332	32,478	1,595
Grand Total	951,203	76,278	3,222

b. In Uninsured Industries.

Trade	Number of Policies of Women and Girls Remaining Lodged			
	April 25, 1919	October 31, 1919		
Agriculture	1,956	152		
Conveyance of Men, Goods and Messages	11,932	962		
Mines and Quarries	982	78		
otion	81,635	1,171		
Yoolen and Worsted	4,670	162		
Ruct 1 extiles, including Printing, Dyeing, etc	35,835	1,951		
ommercial	24,124	8,616		
ood, Drink and Tobacco	19,926	1,818		
Press Janguaren Garage and American American	26,519	2,924		
Domestic Offices and Services	84 ,529	Į 7. 348		
Seneral Laborers, Factory Workers, etc	56,900	3,740		
Other Uninsured Industries	48,877	5,632		
Total.	397,885	34,554		

Appendix M

List of trades in which women have been substituted for men during the war, but "which from their nature and other conditions of work appear in the main unsuitable for female labor in normal times."

(Compiled from the British Home Office report on the "Substitution of Women in Nonmunition Factories during the War," pp. 16-26.)
Sawmilling

Rope and Binder Twine

Sawmilling Wood Wool Manufacture India Rubber Heavy Chemicals Oil and Seed Crushing Glasshouse processes Flint Glass Glass Bottles

Papermaking Flour and Corn Milling Sugar Refining

Gas Manufacture

Heavy Edge Tools Scythes and Sickles Wire Ropes (heavy) Shale Oil Refining Cement Manufacture (most processes) Feltmongering

Matting Linoleum Manufacture (except a few light processes) Paints and colours China and earthenware

Appendix N

AVERAGE WAGES OF WOMEN AND GIRLS IN NON-MUNITION TRADES IN THE UNITED KINGDOM.

(Calculated from Monthly Returns made by Employers to the Department of Labour Statistics.)

•	LAS:	r WH(OLE W	EEK I	N EAC	эн мо	NTH.				
Industry	Ordinary week in 1908	May-Aug. 1916	5cptDec. 1915	JanApril 1916	May-Aug. 1916	SeptDec. 1918	JabApril 1917	May-Aug. 1917	SeptDec. 1917	JanApril 1918	May-Aug. 1919
Cotton Woolen and worsted. Linen Jute Hosiery Lace Silk Carpet Bleaching, etc. Boot and shoe Shirt and collar Ready-made tailoring Printing Bookbunding Pottery Glass Food preparation Total.	a. d. 16 2 12 1 9 9 12 5 12 3 11 7 9 9 11 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	s. d. 17 1 15 3 10 7 18 4 15 9 13 3 12 0 16 8 14 5 15 4 15 2 12 3 12 2 10 3 14 5	s. d. 17 0 15 6 10 10 18 10 15 10 13 6 12 5 16 4 15 0 14 10 13 7 14 2 12 7 12 8 12 5 11 2 14 10	s. d. 17 11 16 1 18 10 16 8 14 0 12 11 17 1 15 7 14 1 14 10 13 7 13 0 12 3 10 9 15 2	8. d. 18 4 16 8 11 11 19 22 17 2 14 4 13 5 16 3 14 7 15 7 13 6 12 10 11 1 15 2	# d. 18 9 17 11 12 5 17 12 17 1 14 10 13 7 17 3 16 0 14 5 13 1 14 5 14 5 15 6 16 0 17 5 18 7 19 1 10	a. d. 19 7 19 8 13 8 20 4 18 5 15 6 14 9 18 9 18 6 17 4 15 9 17 4 15 9 17 4 115 9 17 8	s. d. 20 7 19 9 15 4 22 7 20 0 16 9 15 7 20 4 20 10 19 6 17 2 18 9 16 4 16 11 13 9 20 2	8. d. 21 5 21 9 17 1 23 9 20 7 17 11 17 2 21 3 20 6 3 21 5 18 3 21 5 18 17 11 17 7 14 9 21 7	s. d. 23 3 22 8 18 8 24 4 22 6 18 6 18 7 22 11 23 10 22 13 19 11 19 11 15 6 23 0 21 10	s. d. 24 1 25 3 20 4 7 23 10 19 2 20 5 24 9 22 10 21 5 21 8 21 8 21 8 21 7 16 10 24 5

a Includes "Paper Making."

¹ Great Britain Ministry of Reconstruction, Report of the Committee on Women's Employment, p. 82.

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