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APPENDIX B

Labor Force, Employment, Unemployment, and Armed Forces, Annual and Quarterly Estimates

TABLE B-1

United States:

Labor Force by Employment and Military Status, 1940-1956

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (millions) ^b									
	<i>Labor Force (Civilian & Military)</i>			<i>Armed Forces Males</i>	<i>Civilian Labor Force Both Sexes</i>	<i>Unemployed Both Sexes</i>		<i>Civilian Employed</i>	
	<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>			<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>	<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>
1940	56.0	41.9	14.1	0.4	55.6	8.3		47.3	
I	55.7	41.5	14.2	0.3	55.4	8.2		47.2	
II	55.9	41.7	14.2	0.3	55.6	8.2		47.4	
III	56.4	42.2	14.2	0.4	56.0	8.5		47.5	
IV	55.9	42.2	13.7	0.6	55.3	8.4		46.9	
1941	57.4	42.8	14.6	1.5	55.9	5.6		50.3	
I	56.1	42.2	13.9	0.9	55.2	6.0		49.2	
II	57.4	42.9	14.5	1.4	56.0	6.0		50.0	
III	58.1	43.2	14.9	1.7	56.4	6.0		50.4	
IV	57.8	42.7	15.1	1.9	55.9	4.4		51.5	
1942	60.1	44.1	16.0	3.8	56.3	2.6		53.7	
I	58.4	43.4	15.0	2.3	56.2	4.0		52.2	
II	59.6	43.8	15.8	3.2	56.4	2.8		53.6	
III	60.3	44.2	16.1	4.2	56.1	2.2		53.9	
IV	62.2	45.0	17.2	5.6	56.6	1.6		55.0	
1943	64.4	45.7	18.7	8.8	55.6	1.0		54.6	
I	63.6	45.3	18.3	7.3	56.3	1.4		54.9	
II	64.4	45.5	18.9	8.5	55.9	1.1		54.8	
III	64.7	45.7	19.0	9.3	55.4	1.1		54.3	
IV	64.9	46.1	18.8	9.9	55.0	0.7		54.3	
1944	65.9	46.4	19.5	11.0	54.6	0.7		53.9	
I	65.5	46.4	19.1	10.3	55.0	0.7		54.3	
II	66.0	46.6	19.4	10.9	54.9	0.7		54.2	
III	65.8	46.2	19.6	11.4	54.2	0.7		53.5	
IV	66.4	46.6	19.8	11.6	54.5	0.5		54.0	
1945	65.2	45.9	19.3	11.1	53.8	1.0		52.8	
I	67.0	46.9	20.1	11.6	55.1	0.7		54.4	
II	66.3	46.4	19.9	11.8	54.2	0.7		53.5	
III	64.7	45.7	19.0	11.7	52.8	1.1		51.7	
IV	62.6	44.5	18.1	9.0	53.4	1.7		51.7	
1946	60.8	44.0	16.8	3.2	57.6	2.3		55.3	
I	60.8	43.8	17.0	5.2	55.6	2.2		53.4	
II	60.5	44.0	16.5	3.4	57.1	2.3		54.8	
III	60.9	44.1	16.8	2.4	58.5	2.2		56.3	
IV	61.0	44.2	16.8	2.0	59.0	2.4		56.6	

TABLE B-1, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (millions) ^b									
	<i>Labor Force (Civilian & Military)</i>			<i>Armed Forces</i>	<i>Civilian Labor Force</i>	<i>Unemployed Both Sexes</i>		<i>Civilian Employed</i>	
	<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>			<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>	<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>
1947	61.6	44.7	16.9	1.4	60.2	2.1	2.3	58.1	57.9
I	61.2	44.4	16.8	1.6	59.6	2.0	2.2	57.6	57.4
II	61.6	44.8	16.8	1.4	60.1	2.2	2.4	57.9	57.7
III	61.8	44.8	17.0	1.3	60.5	2.3	2.5	58.2	58.0
IV	61.8	44.7	17.1	1.3	60.5	2.0	2.2	58.5	58.3
1948	62.8	45.2	17.6	1.3	61.5	2.1	2.3	59.4	59.2
I	62.3	44.9	17.4	1.2	61.1	2.0	2.3	59.1	58.8
II	62.3	44.9	17.4	1.2	61.1	2.0	2.3	59.1	58.8
III	63.2	45.5	17.7	1.3	61.9	2.1	2.3	59.8	59.6
IV	63.3	45.5	17.8	1.4	61.9	2.1	2.3	59.8	59.6
1949	63.6	45.5	18.1	1.5	62.1	3.4	3.7	58.7	58.4
I	63.4	45.5	17.9	1.5	61.9	2.6	2.9	59.3	59.0
II	63.2	45.5	17.7	1.5	61.7	3.3	3.6	58.4	58.1
III	63.5	45.5	18.0	1.4	62.0	3.8	4.1	58.2	57.9
IV	64.2	45.6	18.6	1.4	62.8	4.1	4.4	58.7	58.4
1950	64.5	45.9	18.6	1.5	63.0	3.0	3.2	60.0	59.8
I	64.4	45.7	18.7	1.4	63.0	3.8	4.0	59.2	59.0
II	64.0	45.7	18.3	1.3	62.7	3.2	3.4	59.5	59.3
III	64.3	46.0	18.3	1.3	63.0	2.8	3.0	60.2	60.0
IV	65.4	46.1	19.3	1.9	63.5	2.5	2.7	61.0	60.8
1951	66.0	46.7	19.3	3.1	62.9	1.9	2.1	61.0	60.8
I	65.9	46.3	19.6	2.5 ^d	63.4	2.1	2.3	61.3	61.1
II	65.4	46.6	18.8	3.1 ^d	62.3	1.8	2.0	60.5	60.3
III	66.0	47.0	19.0	3.4	62.6	1.7	2.0	60.9	60.6
IV	66.7	47.0	19.7	3.4	63.3	2.1	2.3	61.2	61.0
1952	66.5	47.0	19.5	3.5	63.0	1.7	1.9	61.3	61.1
I	66.7	46.9	19.8	3.5	63.2	1.7	2.0	61.5	61.2
II	66.1	47.0	19.1	3.6	62.5	1.7	1.9	60.8	60.6
III	66.4	47.2	19.2	3.7	62.7	1.8	2.1	60.9	60.6
IV	66.7	46.8	19.9	3.4	63.3	1.7	1.9	61.6	61.4
1953	67.4	47.7	19.7	3.5	63.8	1.6	1.8	62.2	62.0
I	67.7	47.8	19.9	3.5	64.1	1.5	1.7	62.7	62.5
II	67.2	47.5	19.7	3.5	63.6	1.4	1.7	62.3	62.0
III	67.3	47.7	19.6	3.5	63.7	1.5	1.7	62.2	62.0
IV	67.1	47.6	19.5	3.5	63.5	1.8	2.1	61.8	61.5
1954 ^e	67.8	47.9	19.9	3.4	64.4	3.2	3.5	61.1	60.8
I	67.7	47.7	20.0	3.4	64.3	2.9	3.2	61.4	61.1
II	67.9	47.9	20.0	3.4	64.5	3.3	3.7	61.2	60.8
III	67.9	48.0	19.9	3.4	64.5	3.5	3.8	61.0	60.7
IV	67.7	47.7	20.0	3.4	64.4	3.3	3.6	61.0	60.7
1955 ^e	68.9	48.1	20.8	3.1	65.9	2.7	2.9	63.1	62.9
I	67.7	47.6	20.1	3.2	64.5	2.7	2.9	61.8	61.6
II	68.5	48.0	20.5	3.1	65.4	2.7	2.9	62.7	62.5
III	69.4	48.3	21.1	2.9	66.4	2.5	2.6	63.9	63.8
IV	70.2	48.6	21.5	3.0	67.1	2.7	3.0	64.4	64.1
1956 ^{e, f}	70.3	48.6	21.7	2.9	67.5	2.6	2.8	65.0	64.8
I	69.8	48.5	21.3	2.9	66.8	2.4	2.7	64.5	64.2
II	70.6	48.7	21.9	2.9	67.7	2.6	2.9	65.2	64.9
III	70.7	48.8	21.9	2.8	67.8	2.5	2.8	65.4	65.1
IV	70.4	48.5	21.9	2.8	67.5	2.7	3.0	64.9	64.6

APPENDIX B

TABLE B-1, *continued*

ANNUAL AND QUARTERLY AVERAGES, UNADJUSTED (millions) ^b									
	<i>Labor Force (Civilian & Military)</i>			<i>Armed Forces Males</i>	<i>Civilian Labor Force Both Sexes</i>	<i>Unemployed Both Sexes</i>		<i>Civilian Employed</i>	
	<i>Both Sexes</i>					<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>	<i>Old Defini- tion ^c</i>	<i>New Defini- tion ^c</i>
	<i>Males</i>	<i>Females</i>							
1940	56.0	41.9	14.1	0.4	55.6	8.3		47.3	
I	54.5	40.9	13.6	0.3	54.2	9.3		44.9	
II	56.2	41.8	14.4	0.3	55.9	8.2		47.7	
III	57.7	43.0	14.7	0.4	57.3	8.3		49.0	
IV	55.7	41.9	13.8	0.6	55.1	7.1		48.0	
1941	57.4	42.8	14.6	1.5	55.9	5.6		50.3	
I	54.6	41.5	13.1	0.9	53.7	6.9		46.8	
II	57.8	43.0	14.8	1.4	56.4	6.1		50.3	
III	59.5	44.0	15.5	1.7	57.8	5.4		52.4	
IV	57.5	42.5	15.0	1.9	55.6	3.8		51.8	
1942	60.1	44.1	16.0	3.8	56.3	2.6		53.7	
I	57.1	42.7	14.4	2.3	54.8	4.0		50.8	
II	60.0	44.0	16.0	3.2	56.8	2.8		54.0	
III	61.7	45.1	16.6	4.2	57.5	2.2		55.3	
IV	61.8	44.6	17.2	5.6	56.2	1.5		54.7	
1943	64.4	45.7	18.7	8.8	55.6	1.0		54.6	
I	61.7	44.4	17.3	7.3	54.4	1.3		53.1	
II	65.4	46.3	19.1	8.5	56.9	1.1		55.8	
III	66.4	46.6	19.8	9.3	57.1	1.1		56.0	
IV	64.4	45.7	18.7	9.9	54.5	0.7		53.8	
1944	65.9	46.4	19.5	11.0	54.6	0.7		53.9	
I	63.7	45.6	18.1	10.3	53.2	0.7		52.5	
II	66.5	46.8	19.7	10.9	55.4	0.7		54.7	
III	67.4	47.2	20.2	11.4	55.8	0.7		55.1	
IV	66.0	46.3	19.7	11.6	54.1	0.5		53.6	
1945	65.2	45.9	19.3	11.1	53.8	1.0		52.8	
I	65.3	46.1	19.2	11.6	53.3	0.6		52.7	
II	66.8	46.6	20.2	11.8	54.7	0.7		54.0	
III	66.2	46.6	19.6	11.7	54.3	1.1		53.2	
IV	62.4	44.2	18.2	9.0	53.2	1.8		51.4	
1946	60.8	44.0	16.8	3.2	57.6	2.3		55.3	
I	59.5	43.2	16.3	5.2	54.3	2.6		51.7	
II	60.9	44.0	16.9	3.4	57.5	2.4		55.1	
III	62.1	44.8	17.3	2.4	59.7	2.1		57.6	
IV	60.8	43.9	16.9	2.0	58.8	2.0		56.8	
1947	61.6	44.7	16.9	1.4	60.2	2.1	2.3	58.1	57.9
I	59.8	43.8	16.0	1.6	58.2	2.4	2.6	55.8	55.6
II	62.1	44.9	17.2	1.4	60.7	2.3	2.6	58.4	58.1
III	63.1	45.7	17.4	1.3	61.8	2.2	2.6	59.6	59.2
IV	61.5	44.4	17.1	1.3	60.2	1.6	1.8	58.6	58.4

APPENDIX B

TABLE B-1, *continued*

ANNUAL AND QUARTERLY AVERAGES, UNADJUSTED (millions) ^b									
	Labor Force (Civilian & Military)			Armed Forces Males	Civilian Labor Force Both Sexes	Unemployed Both Sexes		Civilian Employed	
	Both Sexes	Males	Females			Old Defini- tion ^c	New Defini- tion ^c	Old Defini- tion ^c	New Defini- tion ^c
1948	62.8	45.2	17.6	1.3	61.5	2.1	2.3	59.4	59.2
I	60.8	44.2	16.6	1.2	59.6	2.4	2.7	57.2	56.9
II	62.8	45.1	17.7	1.2	61.6	2.0	2.3	59.6	59.3
III	64.4	46.2	18.2	1.3	63.1	2.0	2.3	61.1	60.8
IV	63.0	45.1	17.9	1.4	61.6	1.8	2.0	59.8	59.6
1949	63.6	45.5	18.1	1.5	62.1	3.4	3.7	58.7	58.4
I	61.9	44.8	17.1	1.5	60.4	3.0	3.3	57.4	57.1
II	63.6	45.6	18.0	1.5	62.1	3.4	3.7	58.7	58.4
III	64.9	46.4	18.5	1.4	63.5	3.7	4.0	59.8	59.5
IV	64.0	45.4	18.6	1.4	62.6	3.5	3.7	59.1	58.9
1950	64.5	45.9	18.6	1.5	63.0	3.0	3.2	60.0	59.8
I	62.9	45.1	17.8	1.4	61.5	4.4	4.6	57.1	56.9
II	64.6	45.9	18.7	1.3	63.3	3.2	3.5	60.0	59.7
III	65.5	46.6	18.9	1.3	64.2	2.6	2.8	61.6	61.4
IV	65.2	45.9	19.3	1.9	63.3	2.1	2.3	61.2	61.0
1951	66.0	46.7	19.3	3.1	62.9	1.9	2.1	61.0	60.8
I	64.3	45.7	18.6	2.5 ^d	61.8	2.3	2.5	59.5	59.3
II	65.9	46.8	19.1	3.1 ^d	62.8	1.8	2.0	61.0	60.8
III	67.3	47.7	19.6	3.4	63.9	1.7	2.0	62.2	61.9
IV	66.5	46.7	19.8	3.4	63.1	1.7	1.9	61.4	61.2
1952	66.5	47.0	19.5	3.5	63.0	1.7	1.9	61.3	61.1
I	65.2	46.3	18.9	3.5	61.7	2.0	2.2	59.7	59.5
II	66.6	47.1	19.5	3.6	63.0	1.7	2.0	61.3	61.0
III	67.6	47.8	19.8	3.7	63.9	1.7	2.0	62.2	61.9
IV	66.7	46.6	20.1	3.4	63.2	1.4	1.6	61.8	61.6
1953	67.4	47.7	19.7	3.5	63.8	1.6	1.8	62.2	62.0
I	66.6	47.2	19.4	3.5	63.0	1.8	2.0	61.2	61.0
II	67.4	47.8	19.6	3.5	63.9	1.5	1.8	62.4	62.1
III	68.3	48.4	19.9	3.5	64.7	1.4	1.7	63.3	63.0
IV	67.2	47.4	19.8	3.5	63.7	1.8	2.0	61.9	61.7
1954 ^e	67.8	47.9	19.9	3.4	64.4	3.2	3.5	61.1	60.8
I	66.6	47.3	19.3	3.4	63.2	3.5	3.8	59.7	59.4
II	68.0	48.1	19.9	3.4	64.6	3.4	3.8	61.2	60.8
III	68.8	48.7	20.1	3.4	65.4	3.2	3.5	62.2	61.9
IV	67.7	47.4	20.3	3.4	64.3	2.8	3.0	61.5	61.3
1955 ^e	68.9	48.1	20.8	3.1	65.9	2.7	2.9	63.1	62.9
I	66.7	47.1	19.6	3.2	63.5	3.3	3.5	60.2	60.0
II	68.6	48.1	20.5	3.1	65.5	2.7	3.0	62.8	62.5
III	70.3	48.9	21.4	2.9	67.4	2.3	2.5	65.1	64.9
IV	70.0	48.2	21.8	3.0	67.0	2.3	2.5	64.7	64.5
1956 ^{e, f}	70.3	48.6	21.7	2.9	67.5	2.6	2.8	65.0	64.8
I	68.6	47.8	20.8	2.9	65.7	2.9	3.1	62.8	62.6
II	70.8	49.0	21.8	2.9	67.9	2.7	3.0	65.2	64.9
III	71.7	49.4	22.3	2.8	68.9	2.3	2.6	66.6	66.3
IV	70.4	48.2	22.2	2.8	67.6	2.3	2.5	65.3	65.1

APPENDIX B

TABLE B-1, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a							Unemployed Both Sexes (per cent of labor force)	
(per cent of population 14 and older of same sex) ^b							Old Defini- tion ^c	New Defini- tion ^c
	Labor Force (Civilian & Military)			Armed Forces Males	Civilian Labor Force Both Sexes			
	Both Sexes	Males	Females					
1940	55.2	82.8	27.8	0.8	54.8		14.9	
I	55.2	82.4	28.1	0.6	54.9		14.7	
II	55.2	82.4	28.1	0.6	54.9		14.7	
III	55.6	83.2	28.0	0.8	55.2		15.1	
IV	54.9	83.0	26.9	1.2	54.3		15.0	
1941	55.9	83.5	28.5	2.9	54.5		9.8	
I	55.0	82.8	27.2	1.8	54.1		10.7	
II	56.1	83.9	28.3	2.7	54.7		10.5	
III	56.6	84.3	29.0	3.3	54.9		10.3	
IV	56.1	83.1	29.3	3.7	54.3		7.6	
1942	58.0	85.3	30.8	7.3	54.4		4.4	
I	56.6	84.3	29.0	4.3	54.5		6.8	
II	57.6	84.8	30.4	6.2	54.5		4.7	
III	58.1	85.4	30.9	8.1	54.1		3.6	
IV	59.8	86.8	33.0	10.8	54.4		2.6	
1943	61.5	87.5	35.7	16.8	53.2		1.7	
I	61.0	87.1	35.0	14.0	54.0		2.2	
II	61.6	87.3	36.0	16.3	53.5		1.7	
III	61.7	87.5	36.1	17.8	52.8		1.7	
IV	61.7	88.0	35.6	18.9	52.3		1.1	
1944	62.4	88.3	36.7	21.0	51.9		1.0	
I	62.2	88.4	36.1	19.6	52.4		1.1	
II	62.5	88.6	36.6	20.7	52.2		1.1	
III	62.2	87.8	36.9	21.7	51.4		1.1	
IV	62.6	88.4	37.1	22.0	51.7		0.7	
1945	61.1	86.7	35.9	20.8	50.8		1.7	
I	63.1	88.9	37.6	22.0	52.2		1.1	
II	62.3	87.8	37.1	22.3	51.2		1.1	
III	60.6	86.3	35.4	22.1	49.6		1.7	
IV	58.5	83.9	33.6	17.0	50.1		2.7	
1946	56.5	82.6	30.9	6.1	53.5		3.7	
I	56.7	82.4	31.5	9.8	51.9		3.6	
II	56.3	82.6	30.5	6.4	53.1		3.8	
III	56.5	82.7	30.9	4.5	54.3		3.6	
IV	56.5	82.7	30.8	3.7	54.6		3.9	
1947	56.7	83.2	30.8	2.7	55.4		3.5	3.7
I	56.5	82.9	30.7	3.0	55.0		3.3	3.6
II	56.8	83.5	30.6	2.8	55.4		3.6	3.9
III	56.8	83.4	30.9	2.4	55.6		3.7	4.0
IV	56.7	83.0	31.0	2.4	55.5		3.2	3.6
1948	57.3	83.6	31.7	2.4	56.1		3.3	3.7
I	57.1	83.3	31.5	2.2	56.0		3.2	3.7
II	56.9	83.1	31.4	2.2	55.8		3.2	3.7
III	57.6	84.0	31.8	2.4	56.4		3.3	3.6
IV	57.5	83.8	31.9	2.6	56.2		3.3	3.6

APPENDIX B

TABLE B-1, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a							
(per cent of population 14 and older of same sex) ^b						Unemployed, Both Sexes (per cent of labor force)	
	Labor Force (Civilian & Military)			Armed Forces Males	Civilian Labor Force Both Sexes	Old Defini- tion ^c	New Defini- tion ^c
	Both Sexes	Males	Females				
1949	57.4	83.2	32.1	2.7	56.0	5.5	5.8
I	57.5	83.6	32.0	2.8	56.1	4.1	4.6
II	57.1	83.3	31.6	2.7	55.7	5.2	5.7
III	57.2	83.0	32.0	2.7	55.8	6.0	6.5
IV	57.6	83.0	32.9	2.6	56.3	6.5	6.9
1950	57.4	82.8	32.7	2.6	56.1	4.8	5.0
I	57.6	82.9	33.0	2.5	56.3	5.9	6.2
II	57.0	82.6	32.1	2.3	55.9	5.0	5.3
III	57.1	82.9	32.1	2.3	56.0	4.4	4.7
IV	58.0	82.9	33.7	3.4	56.3	3.8	4.1
1951	58.1	83.5	33.4	5.6	55.4	2.9	3.2
I	58.2	83.1	34.1	4.5 ^d	56.0	3.2	3.5
II	57.6	83.4	32.6	5.5 ^d	54.9	2.8	3.1
III	58.0	83.9	32.9	6.1	55.0	2.6	3.0
IV	58.5	83.7	34.0	6.1	55.5	3.1	3.4
1952	58.0	83.4	33.4	6.3	54.9	2.6	2.9
I	58.4	83.5	34.1	6.2	55.3	2.6	3.0
II	57.7	83.5	32.8	6.4	54.6	2.5	2.9
III	57.9	83.7	32.9	6.6	54.6	2.6	3.2
IV	58.0	83.0	33.9	6.0	55.1	2.5	2.8
1953	57.8	82.9	33.3	6.1	54.7	2.4	2.7
I	58.3	83.4	33.8	6.1	55.3	2.3	2.5
II	57.7	82.7	33.4	6.1	54.7	2.1	2.5
III	57.6	82.8	33.1	6.3	54.5	2.2	2.5
IV	57.3	82.5	32.9	6.1	54.3	3.1	3.6
1954 ^e	57.5	82.4	33.4	5.7	54.7	4.8	5.2
I	57.7	82.5	33.5	5.8	54.8	4.3	4.7
II	57.7	82.6	33.5	5.8	54.8	4.8	5.4
III	57.5	82.6	33.2	5.7	54.6	5.2	5.6
IV	57.2	81.9	33.3	5.6	54.4	4.9	5.3
1955 ^e	57.9	82.2	34.4	5.2	55.3	3.9	4.2
I	57.1	81.6	33.4	5.4	54.4	4.0	4.3
II	57.6	82.1	34.0	5.2	55.0	3.9	4.2
III	58.2	82.4	34.9	5.0	55.7	3.7	3.8
IV	58.7	82.8	35.4	5.0	56.2	3.9	4.3
1956 ^{e, f}	58.5	82.4	35.6	4.8	56.1	3.7	4.0
I	58.3	82.7	35.0	4.9	55.9	3.5	3.9
II	58.7	82.5	35.8	4.9	56.4	3.7	4.1
III	58.6	82.6	35.8	4.8	56.3	3.6	4.0
IV	58.2	82.0	35.6	4.8	55.9	3.8	4.3

Source: *Current Population Reports, The Labor Force*, Bureau of the Census; *The Battle for Production*, Fourth Quarterly Report to the President by the Director of Defense Mobilization, January 1, 1952.

^a To adjust quarterly data, seasonal indexes were computed by averaging the ratios of original percentage figures to four-term moving averages, a method pre-

APPENDIX B

Notes to Table B-1, *continued*

sented by Arthur F. Burns and Wesley C. Mitchell in *Measuring Business Cycles* (National Bureau of Economic Research, 1946, pp. 46-50). The computation yielded the following indexes. (No adjustment was required for the armed forces.) For further discussion, see text at the end of this appendix.

	<i>Labor Force</i>			<i>Civilian</i>		<i>Civilian</i>
	<i>Civilian and Military</i>			<i>Labor Force</i>	<i>Unemployed</i>	
	<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>	<i>Both Sexes</i>	<i>Both Sexes</i>	<i>Both Sexes</i>
1940-1952						
I	97.5	98.4	95.2	97.3	116.6	96.6
II	100.8	100.4	101.7	100.8	102.6	100.7
III	102.2	101.9	103.1	102.4	96.7	102.7
IV	99.5	99.3	100.0	99.5	85.1	100.0
1953-1956						
I	98.4	98.8	97.5	98.2	119.0	97.6
II	100.2	100.4	99.7	100.1	102.5	100.1
III	101.4	101.4	101.3	101.6	90.2	101.8
IV	100.0	99.4	101.5	100.1	88.3	100.5

^b Totals and percentages were computed before data were rounded.

^c Beginning January 1957, the census reclassified from "employed" to "unemployed" persons with jobs but not at work because of temporary layoff or because they were waiting to start new jobs. And persons in the latter category, who happened to be in school while waiting, were classified as outside the labor force. The data for 1947-1956 have been revised in this study to conform as closely as possible with the new definition. No adjustment could be made for the persons with new jobs but still attending school. However, these were probably negligible in number. The seasonal adjustment index for the combined group of those who were on temporary layoff and those waiting to start new jobs is: I, 95.0; II, 115.0; III, 110.0; IV, 80.0. The index was based on the period 1947-1956.

^d Estimated.

^e From January 1954 through April 1956, data were based on a 230-area census sample. (Through 1953, there were 68 sample areas.)

^f Beginning May 1956, data have been based on an enlarged sample of 35,000 interviewed households spread over 330 areas, comprising 638 counties and independent cities.

APPENDIX B

TABLE B-2

United States:

Labor Force by Sex and Age Group, 1940-1956

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (millions) ^b				
	<i>Males</i> 25-64	<i>Females</i> 25-64	<i>Young Persons</i> 14-24	<i>Elderly Persons</i> 65 and Older
1940	31.3	9.2	13.3	2.2
I	31.2	9.2	13.1	2.2
II	31.3	9.3	13.1	2.2
III	31.4	9.2	13.6	2.2
IV	31.3	8.9	13.5	2.2
1941	31.6	9.5	13.9	2.4
I	31.3	9.1	13.4	2.3
II	31.6	9.4	14.1	2.3
III	31.7	9.7	14.3	2.4
IV	31.8	9.7	13.9	2.4
1942	32.2	10.4	14.9	2.6
I	31.9	9.8	14.2	2.5
II	32.1	10.3	14.7	2.5
III	32.3	10.4	15.1	2.5
IV	32.4	11.2	15.8	2.8
1943	33.0	12.2	16.4	2.8
I	32.6	12.0	16.1	2.9
II	33.0	12.3	16.2	2.9
III	33.1	12.3	16.5	2.8
IV	33.3	12.2	16.7	2.7
1944	33.3	12.6	17.1	2.9
I	33.3	12.4	17.1	2.7
II	33.2	12.6	17.3	2.9
III	33.3	12.8	16.7	3.0
IV	33.3	12.9	17.2	3.0
1945	33.0	12.8	16.4	3.0
I	33.4	13.2	17.4	3.0
II	33.4	13.1	16.9	2.9
III	32.9	12.7	16.1	3.0
IV	32.3	12.1	15.3	2.9
1946	33.1	11.4	13.5	2.8
I	32.6	11.4	14.0	2.8
II	33.1	11.3	13.3	2.8
III	33.4	11.4	13.3	2.8
IV	33.4	11.5	13.4	2.7

APPENDIX B

TABLE B-2, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (millions) ^b				
	<i>Males 25-64</i>	<i>Females 25-64</i>	<i>Young Persons 14-24</i>	<i>Elderly Persons 65 and Older</i>
1947	33.7	11.7	13.4	2.8
I	33.5	11.5	13.4	2.8
II	33.6	11.6	13.6	2.8
III	33.8	11.7	13.5	2.8
IV	33.8	11.9	13.3	2.8
1948	34.1	12.3	13.5	2.9
I	33.9	12.1	13.5	2.8
II	34.0	12.0	13.4	2.9
III	34.3	12.4	13.6	2.9
IV	34.3	12.6	13.4	3.0
1949	34.5	12.8	13.3	3.0
I	34.3	12.7	13.4	3.0
II	34.4	12.5	13.3	3.0
III	34.5	12.7	13.3	3.0
IV	34.6	13.2	13.3	3.1
1950	34.9	13.4	13.2	3.0
I	34.6	13.4	13.3	3.1
II	34.8	13.2	13.0	3.0
III	35.0	13.2	13.1	3.0
IV	35.1	13.8	13.5	3.0
1951	35.8	14.1	13.1	3.0
I	35.3	14.2	13.4	3.0
II	35.7	13.6	13.0	3.1
III	36.0	13.9	13.1	3.0
IV	36.2	14.5	13.0	3.0
1952	36.5	14.4	12.6	3.0
I	36.2	14.6	12.9	3.0
II	36.5	14.0	12.6	3.0
III	36.7	14.2	12.5	3.0
IV	36.6	14.8	12.2	3.1
1953	37.4	14.6	12.1	3.2
I	37.1	14.7	12.6	3.3
II	37.4	14.4	12.2	3.2
III	37.6	14.4	12.0	3.3
IV	37.6	14.7	11.7	3.1

APPENDIX B

TABLE B-2, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (millions) ^b				
	<i>Males</i> 25-64	<i>Females</i> 25-64	<i>Young Persons</i> 14-24	<i>Elderly Persons</i> 65 and Older
1954 ^c	37.8	14.9	11.9	3.2
I	37.6	14.8	12.1	3.2
II	37.8	15.0	11.9	3.2
III	37.8	14.9	12.0	3.2
IV	37.8	15.0	11.7	3.2
1955 ^c	37.9	15.7	12.1	3.3
I	37.7	15.1	11.7	3.2
II	37.9	15.5	11.8	3.3
III	37.9	16.0	12.2	3.3
IV	38.0	16.0	12.7	3.5
1956 ^{c, d}	37.9	16.3	12.7	3.4
I	37.9	16.0	12.4	3.4
II	37.9	16.3	12.8	3.5
III	37.9	16.5	12.8	3.4
IV	37.8	16.4	12.7	3.4

APPENDIX B

TABLE B-2, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (per cent of population of same sex and age group) ^b				
	Males 25-64	Females 25-64	Young Persons 14-24	Elderly Persons 65 and Older
1940	94.4	27.9	50.6	24.4
I	94.5	28.2	49.7	24.4
II	94.5	28.3	49.7	24.6
III	94.5	28.1	51.6	24.3
IV	94.2	27.1	51.2	24.2
1941	94.4	28.4	52.8	25.4
I	93.7	27.3	50.9	24.8
II	94.4	28.3	53.4	25.3
III	94.8	29.0	54.3	25.5
IV	94.8	28.8	52.7	25.9
1942	95.2	30.8	56.9	27.1
I	95.1	29.2	53.9	26.6
II	95.4	30.5	55.8	26.3
III	95.4	30.5	57.5	26.3
IV	95.2	32.9	60.2	29.1
1943	96.0	35.5	62.5	29.0
I	95.2	34.9	61.6	29.8
II	96.0	35.7	61.8	29.4
III	96.2	35.8	63.1	29.0
IV	96.5	35.4	63.5	27.7
1944	96.1	36.2	65.0	29.5
I	96.3	35.6	65.0	27.7
II	95.9	36.1	65.8	29.8
III	96.1	36.5	63.5	30.6
IV	95.9	36.7	65.5	30.0
1945	94.4	36.0	63.2	29.3
I	95.8	37.3	66.7	29.7
II	95.7	37.0	64.7	29.3
III	94.0	35.6	62.0	29.4
IV	91.9	34.0	59.2	28.7
1946	93.5	31.7	52.5	27.0
I	92.4	31.9	54.3	27.7
II	93.6	31.5	51.7	27.2
III	94.1	31.6	51.6	27.0
IV	94.0	31.8	52.2	26.1

APPENDIX B

TABLE B-2, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (<i>per cent of population of same sex and age group</i>) ^b				
	<i>Males</i> 25-64	<i>Females</i> 25-64	<i>Young Persons</i> 14-24	<i>Elderly Persons</i> 65 and Older
1947	93.9	31.8	52.8	26.5
I	93.8	31.5	52.2	26.5
II	93.9	31.8	53.4	26.8
III	94.1	31.9	53.0	26.6
IV	93.9	32.1	52.7	26.2
1948	94.0	33.0	53.7	26.5
I	93.8	32.6	53.6	26.0
II	94.0	32.3	53.6	26.4
III	94.2	33.2	54.1	26.4
IV	94.0	33.7	53.6	27.1
1949	93.6	33.7	53.7	26.7
I	93.7	33.7	53.8	26.7
II	93.5	33.0	53.5	26.4
III	93.6	33.5	53.6	26.4
IV	93.4	34.5	53.9	27.1
1950	93.1	34.7	53.9	26.1
I	92.9	34.8	54.0	26.9
II	93.2	34.3	52.9	26.2
III	93.2	34.2	53.3	25.7
IV	93.1	35.6	55.3	25.4
1951	93.9	35.9	54.1	25.2
I	93.1	36.3	54.7	25.4
II	93.9	34.8	53.5	25.7
III	94.1	35.5	54.1	25.0
IV	94.3	36.9	54.0	24.6
1952	94.0	36.4	52.7	24.0
I	93.9	37.1	53.9	24.4
II	94.2	35.4	53.0	23.9
III	94.2	35.8	52.5	23.7
IV	93.5	37.4	51.7	23.9
1953	94.3	36.4	51.2	24.3
I	93.7	36.8	53.5	25.1
II	94.4	36.1	51.3	24.1
III	94.6	36.0	50.5	24.6
IV	94.6	36.5	49.6	23.2

APPENDIX B

TABLE B-2, *continued*

ANNUAL AND QUARTERLY AVERAGES, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATIONS ^a (per cent of population of same sex and age group) ^b				
	Males 25-64	Females 25-64	Young Persons 14-24	Elderly Persons 65 and Older
1954 ^c	94.6	36.9	50.3	23.2
I	94.5	36.8	51.1	23.2
II	94.8	37.1	50.4	23.2
III	94.7	36.6	50.4	23.4
IV	94.4	36.9	49.3	23.2
1955 ^c	94.2	38.2	50.6	23.6
I	94.1	37.0	49.1	23.6
II	94.4	37.9	49.6	23.3
III	94.3	38.9	51.2	23.5
IV	94.3	38.9	52.9	24.5
1956 ^{c, d}	94.0	39.4	52.1	23.9
I	94.0	38.9	51.6	23.9
II	94.1	39.3	52.9	24.4
III	94.1	39.8	52.3	23.6
IV	93.9	39.6	51.6	23.5

Source: Table B-1.

^a For information on the method of computing these seasonal adjustments of quarterly data, see note a to Table B-1 and text at end of this appendix. The computations yielded the following indexes for sex and age groups. (No adjustment was required for males 25-64, as their participation did not seem to fluctuate in any seasonal pattern.)

	Females 25-64	Young Persons 14-24	Elderly Persons 65 and Older
1940-1952			
I	96.5	93.1	97.0
II	102.2	101.1	100.1
III	101.0	108.5	101.6
IV	100.3	97.3	101.3
1953-1956			
I	98.2	93.0	98.2
II	100.0	101.0	100.6
III	99.2	108.6	100.6
IV	101.6	97.4	100.6

^b Before rounding.

^c From January 1954 through April 1956, data were based on a new 230-area census sample.

^d Beginning with May 1956, the data have been based on an enlarged sample of 35,000 interviewed households, spread over 330 areas, comprising 638 counties and independent cities. The change to an enlarged sample does not seem to have affected significantly the estimates of labor force, employment, and unemployment during the two months when the results of both samples were published.

TABLE B-3

Great Britain:

Population and Labor Force by Sex and Age Group, 1939-1948

Age Group (June)	POPULATION (millions) ^a				LABOR FORCE (per cent of population of same sex and age group) ^a										
	1939 ^b	1943 ^c	1945 ^c	1947 ^a	1939	1943	1945 ^c	1947	1948 ^{c, z}	1939 ^b	1943 ^c	1945 ^{c, z}	1947 ^a	1948 ^{c, z}	
MALES															
14-17	1.6	1.4	1.4	1.3	1.3	1.2	1.1	1.1		80.9	84.7	82.7	80.6		
18-24	2.6	2.6	2.5	2.4	2.5	2.6	2.5	2.3		97.0	98.3	98.3	96.5		
25-44	7.1	7.3	7.3	7.3	7.1	7.2	7.2	7.2		98.5	98.5	98.5	98.5		
45-64	4.8	4.9	5.0	5.2	4.6	4.7	4.8	4.9		95.0	95.7	95.5	94.7		
65 & older	1.8	2.0	2.1	2.1	0.6	1.0	0.9	0.7		37.5	51.6	43.2	32.3		
14-24	4.2	4.0	3.9	3.7	3.8	3.8	3.6	3.4		90.9	93.7	92.9	90.9		
14 & older	17.9	18.2	18.3	18.3	16.1	16.7	16.5	16.2	15.7	89.7	91.6	90.2	88.2	84.9	
FEMALES															
14-17	1.6	1.4	1.3	1.3	1.1	1.1	1.0	1.0		72.7	79.8	78.3	75.9		
18-24	2.5	2.6	2.6	2.4	1.9	2.1	2.1	1.8		75.8	81.2	79.8	74.3		
25-44	7.5	7.5	7.5	7.4	2.5	3.4	3.2	2.6		33.3	45.3	43.5	35.1		
45-64	5.6	5.9	6.0	6.1	1.1	1.7	1.6	1.5		19.8	28.0	26.5	25.5		
65 & older	2.4	2.6	2.8	2.9	0.2	0.2	0.2	0.1		8.5	6.9	5.7	4.2		
14-24	4.1	4.0	3.9	3.7	3.0	3.2	3.1	2.8		74.6	80.7	79.3	74.9		
14 & older	19.6	20.0	20.2	20.1	6.8	8.5	8.1	7.0	7.1	35.0	42.3	40.2	35.0	35.1	
BOTH SEXES															
14 & older	37.5	38.2	38.5	38.4	38.7	22.9	25.2	24.6	23.2	22.8	61.1	65.8	63.9	60.4	58.9

TABLE B-3, *continued*

(June)	CIVILIAN LABOR FORCE									
	Number (in millions) ^a					Per Cent of Civilian and Military Population of Same Sex and Age Group ^a				
	1939 ^b	1943	1945 ^c	1947	1948 ^{d, e}	1939 ^b	1943 ^c	1945 ^{c, f}	1947 ^f	1948 ^{d, g}
MALES										
Age Group										
14-24	3.5	2.1	2.0	2.6		84.7	51.8	51.3	69.8	
25-44	6.8	4.7	4.2	6.8		95.7	64.1	58.6	92.9	
45-64	4.6	4.6	4.7	4.8		94.6	93.5	92.8	94.0	
65 & older	0.7	1.0	0.9	0.7		37.5	51.6	43.1	32.3	
14 & older	15.6	12.4	11.8	14.9	14.9	87.0	68.0	64.8	81.4	80.5
FEMALES										
14-24	3.0	2.9	2.8	2.7		74.6	71.9	71.7	73.5	
25-44	2.5	3.3	3.1	2.6		33.3	43.9	41.7	34.9	
45-64	1.1	1.6	1.6	1.6		19.8	28.0	26.4	25.5	
65 & older	0.2	0.2	0.2	0.1		8.5	6.9	5.7	4.2	
14 & older	6.8	8.0	7.7	7.0	7.1	35.0	40.0	38.0	34.7	35.1
BOTH SEXES										
14 & older	22.4	20.4	19.5	21.9	22.0	59.8	53.3	50.7	57.0	56.8

Source and discussion: Appendix Table B-4, Chapter 3, and Appendix F.

^a Totals and percentages were computed before data on population and labor force were rounded. The British practice after 1939 was to count a part-time worker as half a member of the labor force. Workers occupied less than full time were treated here as regular workers for comparison with U.S. figures.

^b The population in 1939 was based on the National Registration in September. The estimate of 250,000 armed forces abroad and seamen at sea was added to the resident population. The ages of the population, as reported by the registration, were converted to the uniform grouping by linear interpolation within the five-year age groups.

^c The 1943 and 1945 age classifications of the English and Welsh populations were derived by linear interpolation of 1939 and 1947 data within five-year age groups. The civilian population of Scotland in 1943 as reported by the 1943 issues of the *Monthly Digest of Statistics* (London, Central Statistical Office), was subdivided by age, on the basis of data for 1945 derived from the report of the Registrar General on civilian population, and added to armed forces and seamen, distributed as in England and Wales in 1945. The Registrar General excluded seamen at sea from civilian population in 1943-1947. We leave out only H. M. Armed Forces and Women's Services.

^d Revised population totals of England and Wales in June 1947 (*Monthly Digest of Statistics*, June 1948, p. 1) were subdivided by age on the basis of the distribution in December. The data on Scotland for June 1947 were used as published.

^e Revised 1948 totals, which are used here, were not available in time to permit computation of breakdown by age groups.

^f Included in the mid-1945 British labor force were 150,000 or more workers from Northern Ireland, Eire, Norway, France, and the Low Countries (*Ministry of Labour and National Service Report, 1939-1946*, London, pp. 54-57). On the other hand, 300,000 armed forces were killed, missing, and captured, all of whom would have been in the labor force, and 60,000 civilians were killed (*World Almanac*, 1948, p. 552, official figure), a loss of perhaps 35,000 gainfully occupied. War losses were thus compensated to some extent by the gain of foreigners. Not included, but working, were 224,000 German and Italian prisoners of war (*Ministry of Labour and National Service Report, 1939-1946*, p. 57; 1947, p. 77). Their inclusion would swell both the wartime labor force and the additions to normal high employment.

^g The 1948 total labor force is from the new series on manpower, revised (*Monthly Digest of Statistics*, November 1956, p. 4). Armed forces for 1948 were classified in the same way as in 1947.

APPENDIX B

TABLE B-4

Great Britain:

Additions to "Working Population" to Compute Labor Force, by Sex, 1943-1948

(thousands)

	1943	1945	1947	1948 ^{a, b}
MALES				
Working population 14-64 ^c	15,028	14,881	14,628	
Undercount 14-64 ^d	626	676	803	
Domestics 14-64 ^e	26	36	47	
65 and older ^f	1,020	891	689	
Labor force	16,700	16,484	16,167	15,657
FEMALES				
Working population 14-59 ^c	7,628	7,218	6,104	
Undercount 14-59 ^d	255	266	293	
Domestics ^e	232	323	417	
60 and older, excluding domestics ^f	346	293	214	
Labor force	8,461	8,100	7,028	7,123

^a The labor force figures for 1948 are from the new series on manpower. *Monthly Digest of Statistics*, London, Central Statistical Office, March 1949, p. 9.

^b Revised 1948 totals, which are used here, were not available in time to permit computation of the various breakdowns.

^c The working population figures include armed forces and part-time workers. No part-time workers were reported in 1939; there were 750,000 in 1943, 900,000 in 1945, 730,000 in 1947, and 800,000 in 1948. *Ibid.*, p. 3; *Ministry of Labour and National Service Report, 1939-1946*, London, Sept. 1947, pp. 65, 125. The British practice during 1939-1948 had been to count each part-time worker as half a member of the labor force, but this study gives full count during this period to all workers for comparison with U.S. data. Further discussion follows notes to this table.

^d The undercounts, in percentages of nonworking population of insurable age in June 1948, were: males, 51; females, 3. These percentages were multiplied in each of the earlier years by the total population of insurable age, minus working population.

^e The number of insured private domestics in June 1948 as reported in the *Ministry of Labour Gazette*, London, February 1949, p. 43, was assumed to represent the total number in service. The number in 1943 was taken to be half that in 1948. The numbers in intervening years were interpolations.

The few male domestics 65 and older were counted with occupied men of those ages. Female domestics were estimated as a whole, with those 60 and older taken to be 8 per cent of all domestics, as in 1948.

^f It is calculated that in 1939 there were 296,000 women 60 and older in the labor force, excluding domestics. According to the *Ministry of Labour and National Service Report, 1939-1946*, p. 54, females 60 and older in the industrial population increased 50,000 from mid-1939 to mid-1953. The number in 1948 was given in the *Ministry of Labour Gazette*, February 1949, pp. 40, 43. The number in 1945 was derived by linear interpolation of data in 1943 and 1948; that in 1947 was taken to be the same proportion of female population of those ages as in 1948.

The number of occupied men 65 and older was assumed to be 350,000 greater in 1943 than in 1939 (*Ministry of Labour and National Service Report, 1939-1946*, p. 54). The number in 1948 was given in *Ministry of Labour Gazette*, February, 1949, p. 40, and that for 1945 was estimated by linear interpolation of data in 1943 and 1948. The percentage of the total male population 65 and older in the labor force was taken to be the same in 1947 as in 1948.

APPENDIX B

METHODS AND MATERIALS USED TO MAKE THE BRITISH WORKING POPULATION DATA OF 1939-1948 COMPARABLE TO LABOR FORCE DATA.

The estimated numbers of males and of females 14 and older are believed to be reliable. But the age groupings are rough and though adequate for standardization are usable only with caution for other purposes.¹

For 1939 the proportions of males and females 14-15 and 65 and older in the labor force rest upon estimates by H. Frankel in "The Industrial Distribution of the Population of Great Britain in July, 1939," *Journal of the Royal Statistical Society* (London, Parts III-IV, 1945, pp. 392-430). The number of boys and girls 16-17 and the age subdivision of women 16-64 rely upon the 1931 proportions of persons of these ages in the labor force. Males in other age groups were calculated by assuming the following percentages: age 18-24, 97; 25-44, 98.5; and 45-64, 95.

The June 1939 distribution of population by age derives from the September National Registration, which differed somewhat from Frankel's calculations and is regarded here as being more accurate. The registered populations in various age groups were multiplied by the labor force proportions in order to obtain the labor force by age, which was slightly greater for males than was Frankel's—though the corrected population for males 14 and older was less—for it included 250,000 armed forces abroad and seamen at sea. However, since the estimate of females 14 and older in the population was smaller, the author's estimate of the labor force of both sexes combined was slightly less than Frankel's. The 1943-1947 distributions rely on school attendance and unemployment insurance registration, and on the presumption that the participation of various age groups does not vary much from one year to the next. Except for a small residual, boys 14-17 were treated as being either in school or in the labor force.² Since school attendance data were unavailable for 1943, the labor force of that year was estimated on the supposition that the number insured made up 86

¹ The age distribution of the labor force, as derived from unemployment compensation data, is probably biased by the greater chance that younger workers will be insured. *Ministry of Labour Gazette*, February 1948, p. 48.

² Data on school attendance for 1946 and 1948 were available from the *Annual Abstract of Statistics, 1935-1946*, London, H. M. Stationery Office, Central Statistical Office, No. 84, 1948, pp. 74-100, and *The Times Educational Supplement*, London, December 25, 1948, p. 726, and were used to interpolate that for 1947. School boys 14-17 in 1945 were estimated as a residual of changes in insurance coverage.

The number of young people 14-17 in school during 1945-1948 was estimated to be (in thousands): 1945, boys 231, girls 202; 1946, boys 247, girls 216; 1947, boys 257, girls 233; 1948 (15-17) boys 146, girls 134.

APPENDIX B

per cent of the labor force from this age group—slightly higher than in 1945. In 1948 no 14-year-old workers were counted. Males 18–24 not in school nor in the labor force were taken to be 1.5 per cent in 1939 and in 1947, and 0.75 per cent in 1943 and 1945. With the exception of these, the number 18–24 in the labor force consisted of individuals not attending institutions of learning.⁸ The proportion of men 25–44 in the labor force was presumed to be 98.5 per cent throughout the period, 1939–1947. The 45–64 range was arrived at by subtracting the estimates for the above age subdivision from the total male labor force aged 18–64.

Insured girls 14–17 were assumed to be 86 per cent of girls of these ages in the labor force in 1943 and 85 per cent in 1945, thus well above the percentage in 1939 (when a larger share of female workers were uninsured domestics). The proportion neither in school nor in the labor force was taken to be 6 per cent of the total population of these ages in 1947. Women 60 and older in the labor force were estimated partly on the assumption that in each year as in 1948, 8 per cent of domestics were of these ages. Women 65 and older were then taken to be half the number 60 and older in the labor force, roughly the same ratio as in 1931. Women 18–64 were subdivided into uniform age brackets, in proportion to the ages of those registered for insurance in 1945 and 1947 according to the *Ministry of Labour and National Service Report, 1947* [London], p. 82. Part-time workers were divided evenly between women 25–44 and 45–64. Separate estimates were made for 1945 and 1947. The proportions in 1945 were used to distribute the labor force 18–64 for 1943.

⁸ Men in college were assumed to be 18–24. Attendance data for 1939–1947 were given in the *Annual Abstract of Statistics, 1937–1947*, No. 85, p. 89, and for 1949 in *The Times Educational Supplement*, February 5, 1949, p. 89. The figures were (males only, in thousands): 1939, 38; 1943, 24; 1945, 24; 1947, 50.

TABLE B-5

Great Britain:

Labor Force by Employment and Military Status, Annual Estimates,
1939-1956

(June)	<i>Civilian & Military</i>			<i>Armed Forces</i>	<i>Civilian</i>		
	<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>		<i>Both Sexes</i>	<i>Unemployed</i>	<i>Employed</i>
						<i>Both Sexes</i>	<i>Both Sexes</i>
<i>Number (millions of persons 14 and older)</i>							
1939	22.9	16.1	6.8	0.5	22.4	1.4	21.0
1940	23.7	16.6	7.1	2.2	21.4	0.7	20.7
1941	24.1	16.8	7.3	3.3	20.7	0.2	20.5
1942	25.0	16.8	8.2	3.8	20.9	0.1	20.8
1943	25.2	16.7	8.5	4.3	20.4	0.1	20.3
1944	25.0	16.6	8.4	4.5	20.0	0.1	19.9
1945	24.6	16.5	8.1	4.7	19.5	0.1	19.4
1946	23.3	16.2	7.1	1.9	21.2	0.4	20.8
1947	23.2	16.2	7.0	1.2	21.9	0.3	21.6
1948	22.8	15.7	7.1	0.87	22.0	0.27	21.7
1949	22.8	15.7	7.1	0.74	22.1	0.25	21.8
1950	23.0	15.7	7.3	0.67	22.3	0.27	22.0
1951	23.2	15.8	7.4	0.80	22.4	0.18	22.2
1952	23.3	15.9	7.4	0.85	22.4	0.30	22.1
1953	23.4	15.9	7.5	0.84	22.4	0.27	22.2
1954	23.7	16.0	7.7	0.82	22.9	0.22	22.6
1955	23.9	16.1	7.8	0.78	23.1	0.17	22.9
1956	24.0	16.1	7.9	0.75	23.2	0.19	23.0
<i>Per Cent of Population 14 and Older of Same Sex</i>					<i>Per Cent of Labor Force</i>		
1939	61.1	89.7	35.0	2.7	59.8	5.5	
1940	62.7	92.4	35.7	12.3	56.7	2.7	
1941	63.9	93.4	37.0	18.2	54.9	0.8	
1942	65.8	92.9	41.3	21.0	55.1	0.3	
1943	65.8	91.6	42.3	23.6	53.3	0.2	
1944	65.1	90.4	42.0	24.6	52.1	0.2	
1945	63.9	90.2	40.2	25.5	50.7	0.4	
1946	60.6	88.5	35.1	10.3	55.3	1.6	
1947	60.4	88.2	35.0	6.8	57.0	1.1	
1948	58.9	84.9	35.1	4.4	56.9	1.2	
1949	58.8	84.4	35.0	4.0	56.9	1.1	
1950	59.0	84.0	36.1	3.6	57.2	1.2	
1951	59.9	85.9	36.3	4.4	57.7	0.8	
1952	59.9	85.5	36.6	4.6	57.7	1.3	
1953	60.5	86.7	37.1	4.6	57.9	1.2	
1954	61.1	87.4	37.7	4.5	59.0	0.9	
1955	61.3	87.2	38.0	4.2	59.2	0.7	
1956	61.6	86.8	38.5	4.1	59.5	0.8	

Source: *Monthly Digest of Statistics*, London, Central Statistical Office: March 1949, pp. 3, 9; July 1953, p. 3; January 1955, p. 3; November 1956, p. 5. *Statistical Digest of the War: History of the Second World War*, London, United Kingdom Civil Series, ed. by U. K. Hancock, 1951, pp. 1, 2, 8. *Ministry of Labour and National Service Report, 1939-1946*, London, September 1947 pp. 65, 125. *Ministry of Labour Gazette*, London, February 1949, pp. 40, 43.

APPENDIX B

TABLE B-6

Canada:

Labor Force by Employment and Military Status, Annual and Quarterly Estimates and Annual and Quarterly Averages, 1939-1958

Number (millions of persons 14 and older)

		<i>Civilian and Military</i>			<i>Armed Forces</i>	<i>Civilian</i>		
		<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>	<i>Males</i>	<i>Both Sexes</i>	<i>Unemployed Both Sexes</i>	<i>Employed Both Sexes</i>
ANNUAL ESTIMATES (Actual Decennial Census for June 1941) ^a								
1939	Aug.	4.44	...	...	0.01	4.43	0.70	3.73
1941	June 1	4.66	3.74	0.92	0.31	4.35	0.37	3.98
1942	June 1	5.00	...	...	0.49	4.51	0.23	4.28
1943	June 1	5.10	...	...	0.67	4.43	0.10	4.33
1944	June 1	5.30	...	...	0.77	4.53	0.08	4.45
1945	June 1	5.33	4.16	1.17	0.70	4.63	0.11	4.52
ANNUAL AVERAGES AND QUARTERLY ESTIMATES ^b								
1945	Nov. 17	4.97	3.87	1.10	0.47	4.50	0.19	4.31
1946		4.96	3.88	1.08	0.13	4.83	0.14	4.69
	Feb. 23	4.97	3.87	1.10	0.28	4.69	0.13	4.56
	June 1	4.98	3.89	1.09	0.12	4.86	0.15	4.71
	Aug. 31	4.96	3.88	1.08	0.07	4.89	0.17	4.72
	Nov. 9	4.94	3.87	1.07	0.05	4.89	0.13	4.76
1947		4.98	3.91	1.07	0.03	4.95	0.10	4.85
	Mar. 1	4.89	3.84	1.05	0.04	4.85	0.09	4.76
	May 31	4.98	3.92	1.06	0.03	4.95	0.11	4.84
	Aug. 16	5.02	3.95	1.07	0.03	4.99	0.10	4.89
	Nov. 8	5.03	3.95	1.08	0.03	5.00	0.10	4.90
1948		5.02	3.95	1.07	0.04	4.98	0.10	4.88
	Feb. 21	5.00	3.92	1.08	0.03	4.97	0.10	4.87
	June 5	5.05	3.98	1.07	0.04	5.01	0.10	4.91
	Sept. 4	5.01	3.95	1.06	0.04	4.97	0.09	4.88
	Nov. 20	5.03	3.97	1.06	0.04	4.99	0.12	4.87
1949		5.13	4.04	1.09	0.05	5.08	0.14	4.94
	Mar. 5	5.04	3.98	1.06	0.04	5.00	0.12	4.88
	June 4	5.12	4.03	1.09	0.04	5.08	0.13	4.95
	Aug. 20	5.13	4.05	1.08	0.05	5.08	0.14	4.94
	Oct. 29	5.23	4.12	1.11	0.05	5.18	0.16	5.02
1950		5.13	4.04	1.09	0.05	5.08	0.17	4.91
	Mar. 4	5.22	4.08	1.14	0.05	5.17	0.20	4.97
	June 3 ^c	4.91	3.87	1.04	0.04	4.87	0.18	4.69
	Aug. 19	5.18	4.13	1.05	0.05	5.13	0.15	4.98
	Nov. 4	5.22	4.10	1.12	0.06	5.16	0.14	5.02
1951		5.29	4.14	1.15	0.08	5.21	0.11	5.10
	Mar. 3	5.29	4.09	1.20	0.07	5.22	0.11	5.11
	June 2	5.29	4.13	1.16	0.07	5.22	0.11	5.11
	Aug. 18	5.27	4.18	1.09	0.08	5.19	0.11	5.08
	Nov. 3	5.30	4.15	1.15	0.08	5.22	0.11	5.11

APPENDIX B

TABLE B-6, *continued*

		<i>Civilian and Military</i>			<i>Armed</i>	<i>Civilian</i>		
		<i>Both</i>			<i>Forces</i>	<i>Both</i>	<i>Unem-</i>	<i>Employed</i>
		<i>Sexes</i>	<i>Males</i>	<i>Females</i>	<i>Males</i>	<i>Sexes</i>	<i>ployed</i>	<i>Both</i>
						<i>Sexes</i>	<i>Both</i>	<i>Sexes</i>
ANNUAL AVERAGES AND QUARTERLY ESTIMATES ^b								
1952		5.42	4.24	1.18	0.10	5.32	0.13	5.19
	Mar. 1	5.41	4.19	1.22	0.09	5.32	0.13	5.19
	May 31	5.42	4.24	1.18	0.10	5.32	0.14	5.18
	Aug. 16	5.40	4.28	1.12	0.10	5.30	0.13	5.17
	Nov. 22	5.43	4.23	1.20	0.10	5.33	0.13	5.20
ANNUAL AVERAGES AND QUARTERLY AVERAGES OF MONTHLY ESTIMATES ^b								
1953		5.49	4.30	1.19	0.10	5.39	0.14	5.25
	I	5.44	4.28	1.16	0.10	5.34	0.12	5.22
	II	5.50	4.31	1.19	0.10	5.40	0.12	5.28
	III	5.52	4.32	1.20	0.10	5.42	0.15	5.27
	IV	5.51	4.32	1.19	0.10	5.41	0.18	5.23
1954		5.53	4.31	1.22	0.10	5.43	0.24	5.19
	I	5.45	4.24	1.21	0.10	5.35	0.20	5.15
	II	5.52	4.32	1.20	0.10	5.42	0.24	5.18
	III	5.55	4.33	1.22	0.10	5.45	0.27	5.18
	IV	5.60	4.37	1.23	0.10	5.50	0.25	5.25
1955		5.70	4.44	1.26	0.10	5.60	0.23	5.37
	I	5.59	4.37	1.22	0.10	5.49	0.24	5.25
	II	5.69	4.43	1.26	0.10	5.59	0.24	5.35
	III	5.77	4.50	1.27	0.10	5.67	0.23	5.44
	IV	5.77	4.48	1.29	0.10	5.67	0.20	5.47
1956		5.81	4.48	1.33	0.10	5.71	0.18	5.53
	I	5.71	4.40	1.31	0.10	5.61	0.19	5.42
	II	5.79	4.47	1.32	0.10	5.69	0.18	5.51
	III	5.85	4.52	1.33	0.10	5.75	0.16	5.59
	IV	5.90	4.53	1.37	0.10	5.80	0.17	5.63

APPENDIX B

TABLE B-6, *continued*

Per Cent of Population 14 and Older of Same Sex

		<i>Civilian and Military</i>			<i>Armed Forces</i>	<i>Civilian</i>	
		<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>	<i>Males</i>	<i>Both Sexes</i>	<i>Unem- ployed Both Sexes (per cent of labor force)</i>
ANNUAL ESTIMATES (Actual Decennial Census for June 1941) ^a							
1939	Aug.	52.9	...	...	...	52.9	15.9
1941	June 1	54.8	85.4	22.3	7.2	51.1	5.6
1942	June 1	57.8	...	...	...	52.0	4.0
1943	June 1	58.2	...	...	...	50.2	2.0
1944	June 1	59.7	...	...	...	50.7	1.9
1945	June 1	59.4	90.9	26.5	15.3	51.6	2.0
ANNUAL AVERAGES AND QUARTERLY ESTIMATES ^b							
1945	Nov. 17	56.2	85.6	25.3	10.3	50.8	3.9
1946		55.1	84.8	24.5	2.8	53.7	2.9
	Feb. 23	55.5	84.8	25.0	6.1	52.3	2.7
	June 1	55.3	85.1	24.6	2.7	54.0	3.0
	Aug. 31	55.0	84.7	24.3	1.4	54.2	3.2
	Nov. 9	54.7	84.5	24.1	1.1	54.2	2.5
1947		54.5	84.3	23.8	0.8	54.2	2.0
	Mar. 1	53.8	83.2	23.5	0.8	53.4	1.8
	May 31	54.6	84.5	23.7	0.8	54.3	2.2
	Aug. 16	54.9	84.9	23.9	0.7	54.6	2.0
	Nov. 8	54.8	84.6	24.1	0.7	54.6	2.0
1948		54.2	84.4	23.3	0.8	53.8	2.1
	Feb. 21	54.3	84.2	23.7	0.7	53.9	2.0
	June 5	54.7	85.1	23.5	0.8	54.2	2.0
	Sept. 4	54.0	84.2	23.1	0.8	53.5	1.8
	Nov. 20	53.9	84.2	22.9	0.8	53.5	2.4
1949		54.3	84.4	23.3	0.9	53.8	2.7
	Mar. 5	53.9	83.9	23.0	0.9	53.5	2.5
	June 4	54.6	84.7	23.6	0.9	54.1	2.5
	Aug. 20	54.5	84.8	23.3	0.9	53.9	2.7
	Oct. 29	54.0	84.0	23.3	0.9	53.5	3.1
1950		53.4	83.3	22.9	1.0	52.8	3.2
	Mar. 4	53.8	83.1	23.7	1.0	53.2	3.9
	June 3 ^c	53.5	83.4	22.8	0.9	53.0	3.5
	Aug. 19	53.1	83.7	21.8	1.0	52.5	2.8
	Nov. 3	53.3	82.8	23.1	1.1	52.6	2.6
1951		53.5	83.3	23.3	1.5	52.7	2.0
	Mar. 3	53.8	82.9	24.4	1.3	53.1	2.0
	June 2	53.6	83.3	23.5	1.5	52.9	1.9
	Aug. 18	53.2	84.0	22.0	1.6	52.4	1.9
	Nov. 3	53.2	83.0	23.1	1.7	52.2	2.0
1952		53.4	82.9	23.4	2.0	52.4	2.4
	Mar. 1	53.6	82.3	24.4	1.9	52.7	2.5
	May 31	53.5	83.2	23.4	2.0	52.5	2.5
	Aug. 16	53.1	83.6	22.2	2.1	52.1	2.3
	Nov. 22	53.2	82.4	23.7	2.0	52.1	2.4

APPENDIX B

TABLE B-6, *continued*

	Civilian and Military			Armed Forces Males	Civilian	
	Both Sexes	Males	Females		Both Sexes	Unem- ployed
						Both Sexes (per cent of labor force)
ANNUAL AVERAGES AND QUARTERLY AVERAGES OF MONTHLY ESTIMATES ^b						
1953	53.1	82.5	23.1	2.1	52.1	2.6
I	53.0	82.4	22.8	2.1	52.0	2.2
II	53.4	82.6	23.2	2.1	52.4	2.3
III	53.1	82.4	23.3	2.1	52.1	2.6
IV	53.0	82.2	23.1	2.1	52.0	3.3
1954	52.6	81.6	23.4	2.0	51.6	4.4
I	52.5	80.9	23.6	2.1	51.5	3.7
II	52.6	81.8	23.2	2.0	51.6	4.4
III	52.6	81.6	23.3	2.0	51.6	4.8
IV	52.8	81.9	23.4	2.0	51.8	4.5
1955	53.0	82.0	23.6	2.0	52.0	4.0
I	52.3	81.8	23.1	2.0	51.3	4.4
II	52.9	81.6	23.6	2.0	51.9	4.2
III	53.4	82.4	23.7	2.0	52.4	3.9
IV	53.2	81.8	24.0	2.0	52.2	3.5
1956	53.2	81.7	24.5	2.0	52.2	3.0
I	52.6	80.7	24.2	2.0	51.6	3.4
II	53.1	81.7	24.4	2.0	52.1	3.1
III	53.4	82.2	24.4	1.9	52.4	2.7
IV	53.6	82.0	25.0	1.9	52.6	2.9

Source and concepts: Chapter 3 and Appendix F.

^a Canadian labor force and armed forces for June 1941 are from the decennial census, and for June 1942-1945 from *Estimates of the Canadian Labour Force and its Composition 1941-7*, a mimeographed table prepared by the Research and Statistics Branch, Department of Labour, Ottawa. These estimates are merely rough projections from the census of 1941, and are not strictly comparable in definition with the quarterly survey instituted in November 1945. They omit both students and women gainfully occupied on farms or in farm homes. The August 1939 employment and armed forces are from *Estimated Manpower Distribution*, also prepared by the Department of Labour. Unemployment for that date could only be approximated, by giving it the same ratio to 1941 as trade union idleness. *Canada Year Book, 1945*, pp. 767-768, 1947, p. 620, and *Census of Canada, 1941*, Vol. VII, *Occupations*, p. 12, Ottawa, Dominion Bureau of Statistics.

^b Quarterly data were adjusted where necessary for seasonal variations by computations which yielded the following indexes. For information on the method of

APPENDIX B

computation, see note *a* to Appendix Table B-1 and text at the end of this appendix.
(No adjustment was required for the armed forces.)

	<i>Labor Force Civilian and Military</i>			<i>Civilian Labor Force</i>		<i>Unemployed</i>	<i>Civilian Employed</i>
	<i>Both Sexes</i>	<i>Males</i>	<i>Females</i>	<i>Both Sexes</i>	<i>Both Sexes</i>	<i>Both Sexes</i>	<i>Both Sexes</i>
1945-1952							
I	97.5	98.7	93.2	97.5	158.5	95.8	
II	100.3	99.9	101.9	100.3	81.6	100.8	
III	102.6	101.6	106.3	102.7	70.5	103.5	
IV	99.6	99.8	98.6	99.5	89.4	99.9	
1953-1956							
I	98.8	98.8	98.1	98.8	155.5	96.7	
II	99.7	99.9	99.8	99.7	98.6	99.8	
III	101.9	102.2	101.7	101.9	61.9	103.5	
IV	99.6	99.1	100.5	99.6	84.0	100.0	

* Excluding Manitoba which was not enumerated because of flood conditions.

TABLE B-6A

Canada:

Labor Force by Sex and Age Group, Annual and Quarterly Averages,
1945-1956

PER CENT OF POPULATION OF THE SAME SEX AND AGE, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATION ^a					
		<i>Males 25-64</i>	<i>Females 25-64</i>	<i>Young People 14-24</i>	<i>Elderly People 65 and Older</i>
1945	Nov. 17	95.0	21.1	60.4	26.5
1946		94.5	20.1	58.5	26.1
	Feb. 23	94.2	20.5	59.3	26.6
	June 1	94.8	20.2	58.8	26.6
	Aug. 31	94.8	20.1	57.6	26.2
	Nov. 9	94.3	19.7	58.4	24.8
1947		94.4	20.0	57.2	25.0
	Mar. 1	93.2	19.7	56.6	24.3
	May 21	94.9	19.8	56.9	25.2
	Aug. 16	95.0	19.9	58.2	25.0
	Nov. 8	94.6	20.6	57.2	25.5
1948		94.9	20.1	56.4	24.4
	Feb. 21	94.1	20.2	57.1	25.0
	June 5	95.3	20.3	57.4	24.2
	Sept. 4	95.3	20.1	55.2	24.1
	Nov. 20	94.7	19.9	55.9	24.1
1949		94.8	20.0	57.4	23.7
	Mar. 5	94.0	19.7	57.0	24.3
	June 4	95.3	20.0	57.6	24.5
	Aug. 20	95.3	20.0	58.0	22.9
	Oct. 29	94.7	20.2	56.8	23.1
1950		94.1	20.0	56.0	22.4
	Mar. 4	93.3	20.9	56.8	23.1
	June 3 ^b	94.7	20.1	55.3	22.5
	Aug. 19	94.5	18.9	56.0	22.0
	Nov. 3	94.0	20.1	56.0	21.8

APPENDIX B

TABLE B-6A, *continued*

PER CENT OF POPULATION OF THE SAME SEX AND AGE, ADJUSTED WHERE NECESSARY FOR SEASONAL VARIATION ^a					
		<i>Males</i> 25-64	<i>Females</i> 25-64	<i>Young People</i> 14-24	<i>Elderly People</i> 65 and Older
1951		94.4	20.5	56.6	21.0
	Mar. 3	93.6	21.4	57.7	21.2
	June 2	94.6	20.6	56.3	21.9
	Aug. 18	94.9	19.1	56.9	20.5
	Nov. 3	94.6	20.8	55.4	20.2
1952		94.4	21.0	56.0	20.1
	Mar. 1	93.7	22.1	56.0	20.9
	May 31	94.9	21.1	55.8	20.3
	Aug. 16	94.8	19.5	56.7	19.6
	Nov. 22	94.2	21.3	55.4	19.6
1953		94.3	20.7	55.6	18.9
	I	93.8	20.5	55.7	19.0
	II	94.6	20.8	55.9	18.7
	III	94.9	21.0	54.9	19.0
	IV	93.9	20.6	55.9	18.7
1954		93.9	21.2	54.8	18.3
	I	92.6	21.2	55.3	18.2
	II	94.1	21.8	55.2	18.3
	III	94.7	21.1	53.9	18.3
	IV	94.1	21.5	54.9	18.3
1955		94.2	21.7	54.5	17.8
	I	93.0	21.2	54.2	18.3
	II	94.3	21.8	53.9	17.8
	III	95.0	21.6	55.7	17.4
	IV	94.5	22.2	54.3	17.8
1956		94.3	22.8	54.0	18.8
	I	93.4	22.1	53.9	18.4
	II	94.3	22.6	54.1	18.7
	III	94.9	23.0	53.7	19.1
	IV	94.5	23.5	54.4	19.0

Source and concepts: Chapter 3 and Appendix F.

^a For information on the method of computing these seasonal adjustments of quarterly data, see note *a* to Table B-1 and text at end of this appendix. The computations yielded the following indexes for sex and age groups. (No adjustment was required for males 25-64, as their participation did not seem to fluctuate in any seasonal pattern.)

	<i>Females</i> 25-64	<i>Young Persons</i> 14-24	<i>Elderly Persons</i> 65 and Older
1945-1952			
I	93.1	94.8	94.4
II	103.4	99.6	100.5
III	104.9	107.1	102.9
IV	98.6	98.5	102.2
1953-1956			
I	98.9	95.4	95.7
II	101.0	98.4	100.8
III	99.1	109.1	103.2
IV	101.0	97.1	100.3

^b Excluding Manitoba which was not enumerated because of flood conditions.

APPENDIX B

TABLE B-7

Germany, Including the Saar, Austria, and the Sudetenland:
Population and Labor Force by Sex, 1939-1944

(May)	1939	1940	1941	1942	1943	1944
POPULATION 14 AND OLDER (millions) *						
Germans, including armed forces before losses						
Males	30.1	30.4	30.6	30.8	31.0	31.2
Females	32.2	32.4	32.6	32.8	33.0	33.1
Both sexes	62.3	62.8	63.2	63.6	64.0	64.3
Armed forces (assumed to be entirely males)						
Before losses	1.4	5.7	7.4	9.4	11.2	12.4
Losses	0	0.1	0.2	0.8	1.7	3.3
Active	1.4	5.6	7.2	8.6	9.5	9.1
LABOR FORCE (millions) *						
Germans, including armed forces before losses						
Males	25.9	26.1	26.4	26.3	26.7	26.6
Females	14.6	14.4	14.2	14.4	14.8	14.8
Both sexes	40.5	40.5	40.6	40.7	41.5	41.4
Foreigners ^b and prisoners in labor force						
Males	0.2	1.0	2.6	3.5	4.8	5.4
Females	0.1	0.2	0.4	0.7	1.5	1.7
Both sexes	0.3	1.2	3.0	4.2	6.3	7.1
PER CENT OF POPULATION IN LABOR FORCE *						
German labor force as per cent of German population of same sex, including armed forces before losses						
Males	85.9	86.0	86.2	85.4	86.1	85.1
Females	45.3	44.4	43.5	44.1	44.9	44.7
Both sexes	64.9	64.5	64.2	64.1	64.9	64.3
German and foreign ^b labor force as per cent of German and foreign ^b population of same sex, including active armed forces						
Males	86.0	86.4	87.3	86.6	87.4	86.0
Females	45.4	44.7	44.1	45.2	47.3	47.4
Both sexes	65.1	65.1	65.7	65.9	67.2	66.3

Source: Data and discussion on labor force, Chapter 3 and Appendix F. The population in 1939 by sex was derived from the census of that year. *Statistical Year-Book of the League of Nations, 1941-1942*, Geneva, 1943, Table 3, p. 26. For 1940-1944 the population represented the interpolation of data for 1940 and 1945, estimated by Frank Notestein in *Future Population of Europe and the Soviet Union*, Geneva, League of Nations, 1944, pp. 256-257 and 264-265. The Notestein data, which excluded the Saar and the Sudetenland, were not used directly but served as indexes for extrapolating the population reported by the 1939 census.

* Totals and percentages were computed before data on population and labor force were rounded.

^b Belgians, Dutch, Poles, and others in Germany on contract, compulsory, or semi-compulsory labor services.

APPENDIX B

Seasonal Adjustments of Quarterly Data

The seasonal adjustments of the quarterly data for the United States in Appendix Tables B-1 and B-2 and for Canada in Tables B-6 and B-6A were based on the method of averaging ratios of original figures to four-term moving averages, "centered" on the third month.⁴ Adjustment was made of the percentages, rather than of the absolute data, and the seasonally-adjusted data in millions were then computed from the seasonally-adjusted data in percentages. No seasonal adjustment was made, of course, for the armed forces in either country. And none was made for the labor force of men 25-64 (since it did not seem to fluctuate in any seasonal pattern), or for the unemployed in the United States during the World War II years, 1942-1945, when the decline of unemployment to extremely low levels seemed to have largely ironed out seasonal variations. For the United States during 1940-1952, the base period of the seasonal indexes covers the second quarter of 1940 to the second quarter of 1950; for Canada during 1945-1952 the base period covers November 1945 to June 1950. For both countries during 1953-1956, the base period of the seasonal indexes covers all of these four years.

Since these computations were made, two United States government agencies have constructed seasonal indexes based on somewhat different methods and different periods. The Bureau of the Census used an "Improved Ratio to Moving Average" method, based on data for 1947-1949. The Bureau of Labor Statistics used the link-relative method based on data for 1946-1953. These indexes were constructed for monthly data, but are here clustered into quarterly averages for comparison with the seasonal index of the study used for 1940-1952. Following are the three sets of indexes, compared for the seasonal adjustment of unemployment.

	<i>This Study</i> <i>Ratio-to-Moving-Average</i> <i>Method, Based on Data</i> <i>for 1940 to 1950</i> ^a	<i>Bureau of the Census</i> <i>"Improved Ratio to Mov-</i> <i>ing Average" Method, Based</i> <i>on Data for 1947-1949</i> ^b	<i>Bureau of Labor Statistics</i> <i>Link-Relative Method,</i> <i>Based on Data for</i> <i>1946-1953</i> ^c
I	116.6	116.4	116.1
II	101.6	99.2	100.7
III	96.7	95.6	95.6
IV	85.1	88.8	87.7

^a Base data cover the second quarter of 1940 to the second quarter of 1950.

^b *Current Population Reports, Annual Report of the Labor Force 1954*, Bureau of the Census, Series P-50, No. 59, p. 13. Among the refinements was a provision for moving seasonal adjustment factors so as to reflect changing seasonal patterns with only a moderate time lag. The Bureau of the Census is now making an intensive review of its seasonal adjustments of unemployment and the labor force.

^c "Revised Indexes of Seasonal Variations in Labor Force, Employment, and Unemployment," Bureau of Labor Statistics, Unpublished Memorandum, July 13, 1954, Table 1.

⁴ Arthur F. Burns and Wesley C. Mitchell, *Measuring Business Cycles*, National Bureau of Economic Research, 1946, pp. 46-50.

APPENDIX B

As may be seen in the above comparison, the indexes differ very little. So far as unemployment is concerned, the methods and the periods used do not seem to have been critical despite the fact that the seasonal pattern of unemployment is far from being a regular one from year to year.

In the case of the labor force, the independent seasonal adjustment of the component age-sex groups and the total labor force 14 and older would have created some disparities, since the former would not have added up precisely to agree with the latter. Therefore the total seasonally adjusted labor force was computed in this study by combining the seasonally adjusted participation of the broad age-sex groups (omitting seasonal adjustment for men 25-64 and 65 and older since their participation did not seem to vary seasonally). The seasonally-adjusted data for females 14 and older were also computed independently and subtracted from the seasonally-adjusted total labor force to obtain the seasonally-adjusted data for males 14 and older.

The Bureau of the Census and the Bureau of Labor Statistics have constructed seasonal indexes for the civilian labor force only, the latter including the total 14 and older, males and females 14-24 separately, and males and females 25 and older separately. Since a labor force group 25 and older is not presented here, the comparison is confined to the total labor force and to males and females 14-24.

	<i>This Study</i>	<i>Bureau of the Census</i> ^a	<i>Bureau of Labor Statistics</i> ^b
Total Civilian Labor Force 14 and Older			
I	97.3	97.5	97.9
II	100.8	100.8	100.4
III	102.4	102.4	101.9
IV	99.5	99.3	99.8
Males 14-24			
I	93.5	...	92.8
II	101.6	...	101.7
III	108.6	...	110.3
IV	96.3	...	95.1
Females 14-24			
I	92.1	...	92.7
II	100.4	...	100.4
III	108.2	...	107.2
IV	99.3	...	99.7

^a *Measuring Seasonal Variation in Labor Force Components*, Bureau of the Census, Memorandum, March 1, 1951, Table 1. The census did not provide seasonal adjustments for males and females 14-24.

^b Bureau of Labor Statistics, *op. cit.*, Table 4.

The greatest disparity was found for males 14-24, but the index of this study includes the armed forces. Even these disparities are not large, and the similarities for females 14-24 and for the total civilian labor force are very close.

APPENDIX B

Although the seasonal adjustments based on data for 1940-1950 seemed satisfactory for the period prior to the Korean conflict, they were less satisfactory for the period after that, since repetitive movements appeared in the quarterly data on females and total labor force during 1951, 1952, and thereafter. No revisions were made here in the adjustments for 1951 and 1952, because so many correlations based on these data would have had to be recomputed. New seasonal adjustments were made, however, for 1953-1956 on the basis of the data for those years. The seasonal patterns underlying these adjustments for 1953-1956 (footnotes *a* to Tables B-1 and B-2), indicate substantially smaller seasonal fluctuations, in the labor force, especially for females and both sexes, but greater seasonal fluctuations in unemployment, than those for the period 1940-1950. The same revisions for 1953-1956 were made for Canada, with substantially similar differences in pattern (footnote *b* to Table B-6 and footnote *a* to Table B-6A).