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THE LABOUR FORCE

JUNE 1966

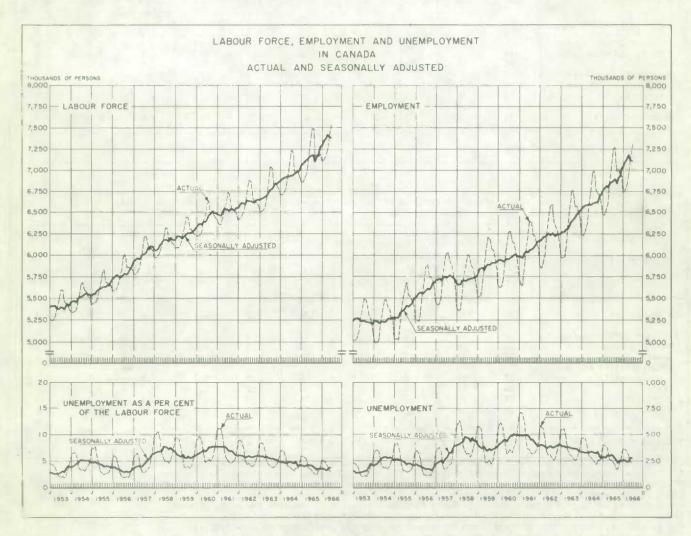
In the week ended June 18, 1966, the Canadian labour force was estimated at 7,533,000. Of this total, 7,303,000 persons were employed for all or part of the week and 230,000 were unemployed for the whole week. The labour force increased by 150,000 from May, the employed increased by 167,000 and the unemployed decreased by 167,000. Compared with June 1965, the labour force and the employed were higher by 227,000 and 254,000, respectively, and the number of unemployed was 27,000 lower.

Between May and June, employment in nonagricultural industries increased by 183,000; agricultural employment decreased by 16,000. Nonagricultural employment was 328,000 higher than in June 1965; while employment in agriculture was 74,000 lower. Men accounted for 122,000 of the increase in employment between May and June and women, for 45,000. Employment was higher than in June 1965 by 117,000 among men and 137,000 among women.

Je e-

Price: \$2,00 per year

Expressed as a percentage of the labour force, the unemployment rate was 3.1 in June. In May the rate was 3.3 and in June last year it was 3.5. Seasonally adjusted, the unemployment rate in June 1966 was 3.7.



Special Surveys Division

ROCER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

The Unemployed by Occupation and Industry

2nd Quarter 1966

The Labour Force Survey provides information about the occupation and industry attachments of members of the labour force. For the employed, current occupation and industry are reported. The unemployed are identified with the industries in which they last worked and the occupations which they last followed. From these data, unemployment rates for broad occupation and industry groups are calculated by expressing the number unemployed as a percentage

of the labour force classified in each group. In addition, percentage distributions have been made according to occupation and industry groups. Unemployment rates and percentage distributions for the second quarter of 1966, with comparative data for the first quarter of 1966 and the last three quarters of 1965, are shown in the following tables - in Table 1 by occupation group, and in Table 2 by industry group.

	Percen		ribution o terly aver		ployed	Unemployment rates(1) (quarterly averages)				
<u>Table 1</u> Occupation group	1966		1965			1966		1965		
	2nd quar.	lst quar.	4th quar.	3rd quar.	2nd quar.	2nd quar.	lst quar.	4th quar.	Зтd quar.	2nd quar.
All occupations	100	100	100	100	100	3.5	4.9	3.0	2.8	4.2
Office and profes-	-									
sional(2)	16	14	17	16	13	1.3	1.6	1.2	1.2	1.3
Transportation	6	7	5	5	7	4.3	6.9	3.0	2.8	5.4
Service and recreation	10	9	12	12	10	3.1	4.0	3.1	3.1	3.6
Primary(3) Craftsmen, production process and related	10	14	11	В	11	3.5	7.4	3.1	1.9	4.2
workers	28	33	32	25	27	3.8	6.2	3.7	2.8	4.5
Labourers(4)	18	19	17	16	19	11.6	17.8	10.1	8.1	14.2
Never worked(5)	14	4	7	17	13	N/A	N/A	N/A	N/A	N/A
Total unemployed (000's)	258	352	214	210	298					

	Percer		ribution o terly aver.		ployed	Unemployment rates(1) (quarterly averages)					
<u>Tæble 2</u> Industry group	1 9	66	1965			1	966	1965			
	2nd quar.	lst quar.	4th quar.	3rd quar.	2nd quar.	2nd quar.	lst quar.	4th quar.	3rd quar.	2nd quar.	
All industries	100	100	100	100	100	3.5	4.9	3.0	2.8	4.2	
Primary industries(6)	12	15	12	9	14	3.7	7.2	3.2	1.9	4.7	
Manufacturing	21	19	21	21	18	3.0	3.9	2.7	2.6	3.2	
Construction	18	24	17	15	19	8.7	16.3	6.9	5.5	11.3	
Transportation and other			100								
utilities(7)	7	10	8	7	8	2.9	5.7	2.8	2.3	3.7	
Trade	10	11	11	11	10	2.2	3.2	2.0	1.9	2.5	
Service(8)	19	17	22	20	18	2.0	2.6	2.1	1.9	2.4	
Never worked(5)	14	4	7	17	13	N/A	N/A	N/A	N/A	N/A	
Total unemployed (000's)	258	352	214	210	298						

(1) The unemployed in an occupation group or an industry group as a percentage of the labour force in that group.

(2) Includes managerial, professional and technical, clerical, sales, and communication occupations.

(3) Includes farming, fishing, trapping, logging, and mining occupations.(4) Includes labourers and unskilled workers not farming, fishing, logging, or mining.

(5) Comprises unemployed persons who never had a full-time civilian job lasting two weeks or more.
(6) Includes agriculture, forestry, fishing and trapping, and mines, quarries, oil wells.

(7) Includes transportation, storage, communication, and electric power, gas and water utilities.

(8) Includes community, business and personal service, public administration, and finance, insurance, real estate. Note: The statistics in these tables are based on the 1961 Census Classification of Occupations and the 1960 Standard Industrial Classification.

Technical Notes

Scope of Labour Force Survey

The statistics contained in this report are based on information obtained through a sample survey of households. Interviews are carried out in nearly 35,000 households chosen by area sampling methods across the country. Percentages of total households selected for the sample were as follows: Atlantic region, 1.6 p.c.; Quebec, 0.5 p.c.; Ontario, 0.5 p.c.; Prairie region, 0.8 p.c.; British Columbia, 0.7 p.c. The Labour Force Survey, started in November 1945, was taken at quarterly intervals until November 1952. Since then it has been carried out monthly. Estimates of employment, unemployment and non-labour force activity refer to the specific week covered by the survey each month. The sample used in the surveys of the labour force has been designed to represent all persons in the population 14 years of age and over residing in Canada, with the exception of: residents of the Yukon and Northwest Territories, Indians living on reserves, inmates of institutions and members of the armed forces. These excluded categories amount to about three per cent of the total population 14 years of age and over.

Estimates derived from a sample survey are subject to sampling and non-sampling errors. Aspects of this subject in relation to the Labour Force Survey are reviewed under "Reliability of Estimates" on page 8.

Labour Force Statistics

<u>Contents of the Tables</u> - The results of the survey are presented in the tables on pages 4 to 7 of this report.

> <u>Canada, Labour Force</u> (pages 4 and 5). Tables 1 to 3 refer to the labour force, employment and unemployment and contain labour force participation and unemployment rates. <u>Canada, Employed</u> (page 6). Tables 4 to 6 contain further detail on employment. <u>Canada, Unemployed</u> (page 7). Table 7 contains further detail on unemployment. <u>Regions, Labour Force</u> (page 7). Table 8 contains labour force data for the regions.

Supplementary Data - From time to time, additional data on particular aspects of the labour force or its components will be obtained. Such material, as it becomes available, will be either included in this report or released in separate reports.

Other Data Available - In addition to the published statistics, there is a considerable amount of data which can be obtained on request. Following is a list of material available.

Labour Force - The civilian labour force is composed of that portion of the civilian noninstitutional population 14 years of age and over who, during the reference week, were employed or unemployed.

Employed - The employed includes all persons who, during the reference week:

- (a) did any work for pay or profit;
- (b) did any work which contributed to the running of a farm or business operated by a related member of the household; or
- (c) had a job, but were not at work, because of bad weather, illness, industrial dispute, or vacation, or because they were taking time off for other reasons.

Persons who had jobs but did not work during the reference week and who also looked for work are included in the unemployed as persons without work and seeking work.

Unemployed - The unemployed includes all persons who, through the reference week:

For Canada only:

- 1. Age and sex distributions.
- 2. Marital status and sex distributions.
- 3. Employed -
 - (a) Reasons for working less than full-time.
 - (b) Hours worked by sex for total employed, agriculture and non-agriculture, and for paid workers, non-agriculture.
 - (c) Industry and occupation groups, by sex for total employed and for paid workers.
- 4. Persons not in the labour force by category.

For regions:

5. Labour force: by age; by sex, agricultural and nonagricultural.

Employed: by age.

For individual provinces of Atlantic and Prairie regions:

Population 14 years of age and over and labour force: by sex.

Total employed, total unemployed, and total persons not in labour force.

Definitions and Explanations

- (a) were without work and seeking work, i.e., did no work during the reference week and were looking for work; or would have been looking for work except that they were temporarily ill, were on indefinite or prolonged layoff, or believed no suitable work was available in the community; or
- (b) were temporarily laid off for the full week, i.e., were waiting to be called back to a job from which they had been laid off for less than 30 days.

Not in the Labour Force - Those not in the labour force include all civilians 14 years of age and over (exclusive of institutional population) who are not classified as employed or unemployed. This category includes those: going to school; keeping house; too old or otherwise unable to work; and voluntarily idle or retired. Housewives, students and others who worked part-time are classified as employed. If they looked for work they are classified as unemployed.

Canada, Labour Force

(Estimates in thousands)

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.

m.1.1. 1		19	66	19	965	196	54
<u>Table 1</u> Summary	S.D. (1)	June 18	May 21	June 19	<u>Мау</u> 22	June 20	May 23
Total					1		
Population 14 years of age and over(2	2)	13,453	13,424	13,113	13,086	12,806	12,780
Labour force	a	7,533	7,383	7,306	7,123	7,055	6,914
Employed	a	7,303	7,136	7,049	6,858	6,773	6,621
Agriculture	d	575	591	649	655	679	674
Non-agriculture	в	6,728	6,545	6,400	6,203	6,094	5,947
Unemployed	d	230	247	257	265	282	293
Not in the labour force	а	5,920	6,041	5,807	5,963	5,751	5,866
Participation rate (3)	a	56.0	55.0	55.7	54.4	55.1	54.1
Unemployment rate (4)							
Actual	d	3.1	3.3	3.5	3.7	4.0	4.2
Seasonally adjusted	1	3.7	3.7	4.3 ^r	4.1	4.9 ^r	4.7
Men							
Population 14 years of age and over(2)	6,667	6,653	6,498	6,484	6,346	6,333
Labour force	a	5,279	5,179	5,185	5,056	5,058	4,948
Employed	a	5,110	4,988	4,993	4,844	4,847	4,714
Agriculture	d	493	510	557	569	591	595
Non-agriculture	a	4,617	4,478	4,436	4,275	4,256	4,119
Unemployed	d	169	191	192	212	211	234
Not in the labour force	c	1,388	1,474	1,313	1,428	1,288	1,385
Participation rate (3)	 a	79.2	77.8	79.8	78.0	79.7	
Unemployment rate (4)	d	3.2	3.7	3.7	4.2	4.2	4.7
Women							
Population 14 years of age and over(2)	6,786	6,771	6,615	6,602	6,460	6,447
Ishour fores		2 254	2 204	0 101	2 047	1 007	1 044
Labour force Employed	b	2,254	2,204	2,121	2,067	1,997	1,966
Agriculture	b	2,193	2,148	2,056	2,014 86	1,926	1,907
Non-agriculture	c	2,111	2,067	1,964	1,928	1,838	1,828
Unemployed	e	61	56	65	53	71	59
Not in the labour force	а	4,532	4,567	4,494	4,535	4,463	4,481
Participation rate (3)		33.2	32.6	32.1	31.3	30.9	30.5
						1000	
Unemployment rate (4)	f	2.7	2.5	3.1	2.6	3.6	3.0

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.

(2) Excludes inmates of institutions, members of the armed services, Indians living on reserves and residents of the Yukon and Northwest Territories.

(3) The labour force as a percentage of the population 14 years of age and over.

(4) The unemployed as a percentage of the labour force.r Revised.

Note: With the exception of Tables 2 and 5, all statistics refer to a specific week, the last day of which is indicated.

(Estimates in thousands)

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.

Table 2 Annual averages, 1946-1965	S.D. (1)	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956
Population 14 years of age and over (2)		13,128	12,817	12,536	12,280	12,053	11,83	1 11,60	5 11,388	11,123	10,807
Labour force	a	7.141	6,933	6,748	6,615	6,521	6,41	1 6,24	2 6,137	6,008	5,782
Employed	a	6,862	6,609	6,375	6,225	6,05	5,96			5,731	5,585
Agriculture	d	594	630	649	660	681	. 68	3 70	0 718	748	777
Non-agriculture	a	6,268	5,979	5,726	5,565	5,374	5,28	2 5,17	0 4,988	4,983	4,808
Unemployed	d	280	324	374	390	466	44	6 37	2 432	278	197
Not in the labour									1.1		
force	a	5,986	5,884	5,787	5,665	5,531	5,42	0 5,36	3 5,250	5,115	5,025
Participation rate(3)	a	54.4	54.1	53.8	53.9	54.1	. 54.	2 53.	8 53.9	54.0	53.5
Unemployment rate (4)	d	3.9	4.7	5.5	5.9	7.1	7.	0 6.	0 7.0	4.6	3.4
	195	5 1954	19	53 19	1 1	951	1950	1949	1948	1947	1946
Population 14 years											
of age and over (2)	10,597	10,39	10,10	54 9,9	56 9,	732 9	,615	9,268	9,141	9,007	8,779
Labour force	5,610	5,49:	3 5,39	97 5,3	124 5.	223	5,163	5,055	4,988	4,942	4,829
Employed	5,364				-	097 4	,976	4,913	4,875	4,832	4,666
Agriculture	819			58 8	391	939 1	,018	1,077	1,096	1,122	1,186
Non-agriculture	4,546	4,36	5 4,3	77 4,2	.78 4,	158 :	3,958	3,837	3,779	3,711	3,480
Unemployed	24			52 1	.55	126	186	141	114	110	163
Not in the labour	1.000				22	500	1.50	4 212	4 152	4.045	2 050
force	4,98	7 4,89	8 4,7	67 4,6		509	4,453	4,213	4,153	4,065	3,950
Participation rate(3)	52.9	52.	9 53	.1 53	3.5 5	3.7	53.7	54.5	54.6	54.9	55.0
Unemployment rate (4)	4.4	4.	5 3	.0 2	9	2.4	3.6	2.8	2.3	2.2	3.4

		14-19		20-64 years						
Age, sex, and marital status	Total	years	Men		Wome	n	and over all			
Week ended June 18, 1966		persons	Married	Other	Married	Other	persons			
Population 14 years of age and over(2)	13,453	2,220	3,808 a	1,054 c	3,905 a	1,024 c	1,442			
Labour force Employed Unemployed	7,533 a 7,303 a 230 d	729 c	3,689 a 3,631 a 58 e	944 c 896 c 48 e	1,100 c	734 c 719 c 15 f				
Not in the labour force	5,920 a	1,403 b	119 d	110 d	2,789 b	290 d	1,209 b			
Participation rate (3) - 1966, June 18 May 21			96.9 a 96.6 a	89.6 c 86.5 c		71.7 c 72.4 c				
Unemployment rate (4) - 1966, June 18 May 21		10.8 e 7.5 e	1.6 e 2.5 e	5.1 e 6.3 e		2.0 f 2.5 f	2.1 g 3.4 g			

(1)(2)(3)(4) See footnotes on opposite page.

Note: a) The alphabetic symbol following each estimate in table 3 indicates its standard deviation. For explanation, see "Reliability of Estimates", page 8.

b) Newfoundland included in estimates only from 1950.

Canada, Employed

(Estimates in thousands)

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8,

		19	966	190	65	19	64
<u>Table 4</u> Summary	S.D. (1)	June 18	May 21	June 19	May 22	June 20	May 23(2)
Total employed	а	7,303	7,136	7,049	6,858	6,773	6,621
Agriculture	d	575	591	649	655	679	674
Non-agriculture	a	6,728	6,545	6,400	6,203	6,094	5,947
Employed, non-agriculture		6,728	6,545	6,400	6,203	6,094	5,947
Usually work 35 hours or more	a	6,141	5,945	5,824	5,611	5,590	5,431
At work 35 hours or more	ь	5,720	5,511	5,437	5,267	5,211	3,291
At work less than 35 hours, or							
not at work	c	421	434	387	344	379	2,140
Due to economic reasons (3)	e	64	55	65	59	62	63
Due to other reasons (4)	с	357	379	322	285	317	2,077
Usually work less than 35 hours	с	587	600	576	592	504	516

		196	6	196	5	1964	
<u>Table 5</u> Industry	S.D. (1)	Average Apr./June	Average Mar./May	Average Apr./June	Average Mar./May	Average Apr./June	Average Mar./May
otal employed	a	7,130	6,969	6,835	6,659	6,589	6,427
Agriculture	d	561	528	622	585	652	613
)ther primary industries	e	218	202	211	199	192	172
fanufacturing	d	1,728	1,704	1,621	1,607	1,632	1,598
Construction	e	497	468	447	399	399	373
Transportation and other utilities	b	604	590	628	606	581	581
Trade	d	1,176	1,168	1,144	1,131	1,086	1,063
finance, insurance, real estate	e	300	299	268	267	272	267
Community, personal, other service	s d	1,618	1,600	1,484	1,470	1,397	1,393
Public administration	e	428	410	410	395	378	367

Note: From October 1962 to February 1966, the three-month averages in this table have been based on one-third of the records enumerated each month for the Labour Force Survey. Beginning with the three-month averages for January to March 1966, all of the records have been coded by industry each month and the averages are based on the full monthly surveys. Monthly estimates of employment by industry and occupation are available on request in the Special Tables series mentioned on page 3, "Other Data Available".

Total employed 7,303 a 6,216 b 556 a Agriculture 575 d 110 e 296 a Non-agriculture 6,728 a 6,106 b 260 a Men 5,110 a 4,227 b 488 a Agriculture 493 d 93 e 288 a Non-agriculture 4,617 a 4,134 b 200 a Women 2,193 b 1,989 c 68 a Agriculture 82 e 17 f 8 a	nt Employers rs	Unpaid family workers
Non-agriculture 6,728 a 6,106 b 260 a Men 5,110 a 4,227 b 488 a Agriculture 493 d 93 e 288 a Non-agriculture 4,617 a 4,134 b 200 a Women 2,193 b 1,989 c 68 a	c 356 d	175 d
Men 5,110 a 4,227 b 488 a Agriculture 493 d 93 e 288 a Non-agriculture 4,617 a 4,134 b 200 a Women 2,193 b 1,989 c 68 a	d 53 f	116 e
Agriculture 493 d 93 e 288 d Non-agriculture 4,617 a 4,134 b 200 d Women 2,193 b 1,989 c 68 d	d 303 d	59 e
Non-agriculture 4,617 a 4,134 b 200 a Women 2,193 b 1,989 c 68 a	c 326 d	69 e
Non-agriculture 4,617 a 4,134 b 200 d Women 2,193 b 1,989 c 68 d	d 51 f	61 e
TO MOLE	d 275 d	8 g
	e 30 e	106 d
	g 2 g	55 e
Non-agriculture 2,111 c 1,972 c 60	e 28 f	51 e

 "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.
(2) An unusually large number of persons worked less than 35 hours due to the Queen's Birthday in the reference week. (3) Economic reasons for not working 35 hours or more include short time, layoff for part of the week and termination or start of employment during the week. (4) Other reasons for not working 35 hours or more include illness, bad weather, industrial dispute, vacation, and reasons such as a statutory holiday in the week.

Note: The alphabetic symbol following each estimate in table 6 indicates its standard deviation. For explanation, see "Reliability of Estimates", page 8.



Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.

Regions, Labour Force

Estimates	in	thousands)
(L'SHIMULES	111	moustings

Table 7		190	56	196	55	1964		
Unemployed	S.D. (1)	June 18	M ay 21	June 19	May 22	June 20	M ay 23	
Total unemployed	d	230	247	257	265	282	293	
Without work and seeking work	d	220	235	241	250	269	281	
Seeking full-time work	d	201	221	222	235	246	263	
Seeking part-time work	f	19	14	19	15	23	18	
On temporary layoff up to 30 days	£	10	12	16	15	13	12	
Without work and seeking work	 d	220	235	241	250	269		
Seeking under 1 month	e	99	79	111	75	115	82	
Seeking 1-3 months	e	68	77	64	79	73	83	
Seeking 4-6 months	e	28	47	30	52	38	57	
Seeking more than 6 months	e	25	32	36	44	43	59	

<u>Table 8</u> Regional distributions Week ended June 18, 1966	Canada	Atlantic region	Quebec	Ontario	Prairie region	British Columbia
Population 14 years of age and over	13,453	1,286	3,893	4,747	2,237	1,290
Men	6,667	639	1,918	2,339	1,131	640
Women	6,786	647	1,975	2,408	1,106	650
Labour force	7,533 a	636 b	2,132 b	2,790 b	1,264 b	711 c
Men	5,279 a	463 b	1,502 b	1,922 a	892 b	500 b
Women	2,254 b	173 c	630 c	868 c	372 c	211 c
Employed	7,303 a	612 b	2,047 b	2,715 b	1,249 b	680 c
Men	5,110 a	443 b	1,436 b	1,873 a	881 b	477 b
Women	2,193 b	169 c	611 c	842 c	368 c	203 c
Agriculture	575 d	32 e	117 f	148 e	251 d	27 f
Non-agriculture	6,728 a	580 c	1,930 b	2,567 b	998 c	653 c
Paid workers	6,216 b	527 c	1,772 c	2,400 b	921 c	596 c
Men	4,227 b	374 c	1,218 c	1,616 b	605 c	414 c
Women	1,989 c	153 d	554 c	784 c	316 d	182 d
Unemployed	230 d	24 e	85 e	75 e	15 e	31 e
Men	169 d	20 e	66 e	49 e	11 e	23 e
Women	61 e	4 g	19 f	26 f	4 g	8 g
Not in the labour force	5,920 a	650 b	1,761 b	1,957 b	973 b	579 c
Men	1,388 c	176 c	416 c	417 c	239 c	140 d
Women	4,532 a	474 b	1,345 b	1,540 b	734 b	439 c
Employed 1966, June 18	7,303 a	612 b	2,047 b	2,715 b	1,249 b	680 c
May 21	7,136 a	589 b	1,986 b	2,638 b	1,244 b	679 c
1965, June 19	7,049	599	1,955	2,609	1,232	654
May 22	6,858	570	1,900	2,536	1,217	635
1964, June 20	6,773	586	1,851	2,532	1,187	617
May 23	6,621	550	1,806	2,471	1,188	606
Unemployed 1966, June 18	230 d	24 e	85 e	75 e	15 e	31 e
May 21	247 d	35 e	105 e	57 e	22 e	28 e
1965, June 19	257	31	100	74	23	29
May 22	265	45	105	59	30	26
1964, June 20	282	30	106	88	25	33
May 23	293	40	113	70	32	38

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.
<u>Note</u>: The alphabetic symbol following each estimate in table 8 indicates its standard deviation. For explanation, see "Reliability of Estimates", page 8.



(a) Sampling Error

The estimates in this report are based on a <u>sample</u> of households. Somewhat different figures might have been obtained if a complete census had been taken using the same questionnaires, enumerators, supervisors, processing, etc. as those actually used in the Labour Force Survey. This difference is called the sampling error of the estimates. In the design and processing of the Labour Force Survey extensive efforts have been made to minimize the sampling error. The sampling error (expressed as a per cent of the estimate it refers to) is not the same for all estimates; of two estimates the larger one will likely have a smaller per cent sampling error and of two estimates of the same size the one referring to a characteristic more evenly distributed across the country will tend to have a smaller per cent sampling variability. Also, estimates relating to age and sex are usually more reliable than other estimates of comparable size.

(b) Non-sampling Errors

Errors, which are not related to sampling, may occur at almost every phase of a survey operation. Enumerators may misunderstand instructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaires and errors may be introduced in the processing and tabulations of the data. All these errors are called non-sampling errors. Some of the non-sampling errors will usually balance out over a large number of observations but systematically occuring errors will contribute to biases. Non-sampling errors can be reduced by a careful design of questionnaires, intensive training and supervision of enumerators and a thorough control of the processing operation. In general, the more personal and more subjective inquiries are subject to larger errors. Also, data referring to persons with less stable labour force status will have relatively large non-sampling errors.

(c) Alphabetic Indicators of Standard Deviation

The sampling error, as described under (a) is not known. A quantity, called the <u>standard deviation</u>, can however be estimated from sample data itself. The standard deviation of an estimate is a <u>statistical measure</u> of its sampling error. It also partially measures the effect of non-sampling errors, but does not reflect any systematic biases in the data. The chances are about 68 out of 100 that the difference between a sample estimate and the corresponding census figure would be less than the standard deviation. The chances are about 95 out of 100 that the difference would be less than twice the standard deviation and about 99 out of 100 that it would be less than 2 1/2 times as large.

The standard deviations of the estimates, expressed as a per cent of the estimates, are indicated by letters. The letter "a" indicates that the standard deviation is smaller than 0.5% of the estimate, the letter "b" indicates that the standard deviation is between 0.6% and 1.0% of the estimate and so on as shown in the table below.

Alphabetic	designation	of	per	cent	standard	deviations	
							-

Alphabetic indicator	Per cent standard deviation
a	0.0% - 0.5%
b	0.6% - 1.0%
c	1.1% - 2.5%
d	2.6% - 5.0%
e	5.1% - 10.0%
f	10.1% - 15.0%
g	15.1% -

The actual standard deviation of an estimate is not the same each month. Since the standard deviations of the current estimates are not available at the time when this report is published, the alphabetic indicators are based on the average standard deviations during the last year. They should, therefore, be interpreted only as indications of the order of magnitude of the standard deviations.

(d) Standard Deviation of Month-to-Month Changes

A rough upper limit for the standard deviation of the difference (change) between two estimates referring to two months up to a year apart may also be indicated using the table above. For most characteristics published in this report the standard deviation of the difference between two estimates is likely to be somewhat smaller than the standard deviation of the smaller of the two estimates or in the immediately preceding range.

For example, suppose that a hypothetical estimate in May and June was 513,000 and 625,000 respectively and the per cent standard deviation of both estimates was indicated by the letter "c", i.e. it was between 1.1% and 2.5%. The difference between the May and June estimates (112,000) would, therefore, have a standard deviation which would likely be smaller than 2.5% of 513,000, i.e. it would likely be smaller than 12,800.

(e) Current Estimates of Standard Deviations

Standard deviations are computed monthly for several estimates and month-to-month changes. These are available usually in a few weeks after the publication of this report and can be obtained on request. Beginning with 1966, an annual report on the standard deviations during the last year will be released.