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MANUFACTURING INDUSTRIES,

1949-50

NO. 9. ELECTRICAL MACHINERY AND EQUIPMENT.

Prepared Under Instructions from
THE RIGHT HONORABLE THE TREASURER,

by

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MANUFACTURING INDUSTRIES : AUSTRALIA, 1949-50

PREFACE

1. **GENERAL:** The industries included in the series for 1949-50 are listed on the back of the cover, and are the same as those covered by the 1948-49 series. The 1949-50 summaries published to date are indicated at the top of page 2.
2. **CLASSIFICATION OF FACTORIES:** For purposes of industry classification, a factory in Australia is classified according to the nature of the product. Where two or more distinct types of industrial activity are carried on in one establishment, a separate return is obtained, wherever practicable, for each activity in order to allow classification on this basis. In cases where this is not practicable, there is no alternative but to classify the factory according to its predominant activity. This difficulty is most acute in the Metal Trades industries, (e.g. Engineering firms also producing Agricultural Implements, Stoves and Ovens, and/or Brass and Copper products), but it is also to be found in factories concerned with the treatment or manufacture of Skins, Leather, Clothing, Tool products and some other articles.

Each of the summaries in the series "Manufacturing Industries", relates as far as possible to the operations of factories classified to the industry specified. Sometimes articles applicable to this industry are also produced, as subsidiary production, in other industries, and, wherever possible, quantity tables have been extended to show details of production separately for the industry under review and the total in all industries.

3. **BASIS OF THE STATISTICS:** The scope of the factory statistics is fully explained in Part I of the annual Production Bulletin.

Briefly, a "factory" is taken to be a manufacturing establishment in which four or more hands are employed or in which power other than hand is used.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers, collectors, carters engaged solely on outward delivery of manufactured goods, and retailing storemen. The figures do include, however, proprietors who work in their own factories as well as "out-workers".

The value of output is the wholesale selling value at the factory of goods made or processed during the year, including by-products. In addition it includes the value of other work done, such as repair work, assembling and making-up for customers.

The value of production is the value of output minus the cost of raw materials, containers, power, fuel, light, lubricants, water, tools replaced, and repairs to plant, and represents the value added in the process of manufacture within the factories. As full details of the cost of production are not collected, the amount of profit resulting from operations cannot be ascertained. The value of production, therefore, is the source from which such items as wages, interest, depreciation, profits, taxation, insurance, advertising and other sundry charges are met.

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MANUFACTURING INDUSTRIES, AUSTRALIA - 1949-50

NOTE: Summaries already published in this series are:- Nos. 1. Cement and Cement Goods; 2. Bricks, Tiles, Pottery and Earthenware; 4. White Lead, Paints and Varnish; 5. Chemical Fertilizers; 7. Industrial Metals - Ferrous, Parts I, III and IV. 8. Industrial Metals - Non-Ferrous - Parts I and II; 10. Motor Vehicles and Cycles; 11. Agricultural Implements; 12. Wireless Apparatus; 13. Stoves, Ovens and Ranges; 16. Tanneries; 27. Tobacco, Cigars and Cigarettes; 30. Rubber Works; and 35. Pulp and Paper Making.

ELECTRICAL MACHINERY AND EQUIPMENT

1. SUMMARY OF STATISTICS: The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Electrical Machinery and Equipment for the years 1938-39, 1945-46 and 1947-48 to 1949-50.

TABLE I : ELECTRICAL MACHINERY AND EQUIPMENT : AUSTRALIA

Year	Number of Factories	Persons Employed	Salaries and Wages Paid (b)	Power Fuel, and Light, etc., Used (4)	Value of Materials, etc. Used (c)	Value of Production (d)	Value of Output (7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	No.	No.	£'000	£'000	£'000	£'000	£'000
1938-39	360	10,666	2,031	104	3,195	3,655	6,954
1945-46	551	22,825	6,301	209	8,085	9,496	17,790
1947-48	732	27,579	9,454	291	14,310	13,290	27,891
1948-49	791	29,961	11,703	366	16,510	17,834	34,710
1949-50	811	30,956	13,563	453	21,149	21,154	42,756

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) Includes also value of containers, packing etc. replacements of tools and repairs to plant. (d) Value of production equals column (7) less total of columns (4) and (5).

In the following table, particulars of the Industry are given for each State during the year 1949-50.

TABLE II : ELECTRICAL MACHINERY AND EQUIPMENT : STATES 1949-50

Particulars	N.S.W.	Vic.	Q'ld.	S.A.	W.A.	Tas.	Australia
Number of Factories	390	238	46	57	63	17	811
Number Employed (a) -							
Males	16,416	5,754	790	776	654	118	24,508
Females	4,561	1,424	63	304	75	21	6,448
Total	20,977	7,178	853	1,080	729	139	30,956
Value of -	£	£	£	£	£	£	£
Salaries & Wages Paid (b)	9,354,845	3,172,695	329,262	391,173	262,185	53,300	13,563,460
Power, Fuel & Light etc. Used	321,060	97,629	7,803	15,506	9,270	2,318	453,586
Materials, etc. used	14,685,921	4,964,411	493,431	549,886	365,040	90,484	21,149,173
Production (c)	14,611,079	4,838,073	478,264	649,128	420,878	96,202	21,153,624
Output	29,678,060	9,900,113	979,498	1,214,520	795,188	189,004	42,756,383
Land and Buildings	4,181,067	1,532,387	149,955	203,974	169,608	56,027	6,293,018
Plant & Machinery	2,740,259	1,099,824	100,388	91,604	56,089	38,988	4,127,152
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	29,524	11,219	1,033	1,250	741	228	43,995

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) See note (a) to Table I.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION: Particulars of the average salary and wage paid, together with the average values of output and production per person engaged and the ratio of salaries and wages to value of production are shown in the following table for the years 1938-39, 1945-46 and 1947-48 to 1949-50.

TABLE III : AVERAGE SALARIES & WAGES PAID, OUTPUT, ETC., PER EMPLOYEE : AUSTRALIA

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged (b)	Value of Production per person Engaged (b)	Ratio per cent. of Salaries and Wages to value of Production
	£.	£.	£.	%
1938-39	195	652	343	55.57
1945-46	280	779	416	66.36
1947-48	349	1,011	482	71.14
1948-49	397	1,159	595	65.62
1949-50	445	1,381	683	64.12

(a) Excludes Working Proprietors and amounts drawn by them. (b) Includes Working Proprietors.

3. ARTICLES PRODUCED: The following table shows particulars of the quantity and value of the principal articles produced in Electrical Machinery and Equipment factories during the year 1949-50. A number of the articles produced in establishments classified for statistical purposes as Electrical Machinery and Equipment factories are, however, also produced in other establishments and Table IV accordingly shows separate particulars of these articles produced in (i) Electrical Machinery and Equipment factories, and (ii) all Australian factories.

TABLE IV : ARTICLES PRODUCED IN (i) ELECTRICAL MACHINERY AND EQUIPMENT FACTORIES AND (ii) ALL FACTORIES : AUSTRALIA, 1949-50.

Particulars	Electrical Machinery and Equipment Factories		All Factories	
	Quantity	Value (£)	Quantity	Value (£)
	No.		No.	
Dynamos - Alternators	(a) 273	(a) 75,110	273	75,110
Generators	(a) 9,461	(a) 518,322	9,461	518,322
Motors - Made and incorporated in own products				
Under 1 H.P.	115,765	(b)	213,365	(b)
1 H.P. and over	-	-	28,888	(b)
For Sale -				
Under 1 H.P.	92,604	672,996	105,744	970,180
1 H.P. and under 2½ H.P.	22,889	361,212	24,422	385,246
2½ H.P. " " 5 H.P.	(a) 13,962	(a) 321,298	13,962	321,298
5 H.P. " " 10 H.P.	(a) 6,413	(a) 289,376	6,413	289,376
10 H.P. " " 50 H.P.	(a) 4,096	(a) 284,053	4,096	284,053
50 H.P. and over	349	103,901	349	103,901
Transformers and Converters -				
Above 20 K.V.A. -				
For use in supplying industrial power and light	(a) 2,285	(a) 605,481	2,285	605,481
For industrial use other than power and light	275	20,600	275	20,600
Below 20 K.V.A. -				
For use in Neon Signs	(a) 18,280	(a) 63,577	18,280	63,577
For use in Radio and Electrical Toys	88,094	98,652	146,949	164,733
For use in supplying industrial power and light	21,802	269,958	30,205	304,895
For industrial use other than the supply of power and light	21,856	84,861	31,550	108,280
Batteries -				
Wet Cell Type for Automobile, Radio for Power Plants	(a) 934,132	(a) 1,992,658	934,132	1,992,658
Other	125,142	354,411	125,142	354,411
	(a) 54,601	(a) 253,238	54,601	253,238
Dry Cell Type	(c)	(c)	(c)	(c)
Apparatus for Telegraph and Telephone	(d)	2,636,113	(d)	3,169,213

TABLE IV : ARTICLES PRODUCED IN (1) ELECTRICAL MACHINERY AND EQUIPMENT FACTORIES
AND (2) ALL FACTORIES : AUSTRALIA, 1949-50 (Contd.)

Particulars	Electrical Machinery and Equipment Factories		All Factories	
	Quantity	Value (£)	Quantity	Value (£)
	No.		No.	
Electrical Motors (Domestic and Other)	(e) 348,399	1,174,569	(e) 348,399	1,174,569
Apparatus for Regulating, Starting and Controlling	(d)	3,177,705	(d)	3,348,635
Household Fittings (Switches etc.)	(d)	543,851	(d)	1,636,490
Portable Tools and Appliances	(d)	(a) 662,209	(d)	662,209
Other Electrical Appliances - Clocks	(d)	(a) 4,661	(d)	4,661
Fans	44,064	252,606	48,338	317,475
Hot Water Jugs (complete)	(a) 185,363	(a) 191,864	185,363	191,864
Irons	(a) 178,283	(a) 255,201	178,283	255,201
Radiators and Electric Fires	80,951	186,911	85,216	204,675
Toasters	(a) 175,054	(a) 244,038	175,054	244,038
Washing Machines	9,422	451,754	31,638	1,338,519
Vacuum Cleaners (Domestic)	16,733	221,215	70,604	859,161
Stoves, Ovens and Ranges (Electric)	(e)	(e)	396	48,962
Commercial - Cooking	39,995	319,838	61,081	537,381
Domestic - Cooking - Stovettes etc.	7,648	291,642	40,591	1,206,910
Heating Stoves	(a) 1,872	(a) 25,869	1,872	25,869
Refrigerators - Household - Compression - Electric	47,168	3,570,565	80,879	6,315,260
Absorption - Electric	(e)	(e)	13,179	635,915
Gas	(a) 10,665	(a) 739,174	21,757	1,329,105
Kerosene	2,521	775,641	5,153	1,179,446
Refrigerators - commercial - electric	(d)	909,895	(d)	992,580
Cold Lighting (Neon Signs, etc.)				

(a) Includes production in other works. (b) Quantity only available. (c) Not available for publication. (d) Value only available. (e) Partly estimated.

In the next table comparative details of total Australian production are given for some of the important items of Electrical Machinery and Equipment produced, in all factories for the years 1938-39, 1945-46 and 1947-48 to 1949-50.

TABLE V : OUTPUT OF ELECTRICAL MACHINERY AND EQUIPMENT : AUSTRALIA (a)
(Number)

Particulars	1938-39	1945-46	1947-48	1948-49	1949-50
Dynamos - Alternators	73	1,049	203	135	273
Generators	477	2,320	4,130	9,058	9,461
Motors - Made and incorporated in own products	(b)	(b)	(b)	143,687	242,253
For sale	31,725	74,515	140,374	157,167	154,966
Transformers and Converters - Above 20 K.V.A.	1,906	1,898	1,701	1,940	2,560
Below 20 K.V.A.	161,397	102,466	345,909	252,359	226,984
Batteries - Wet Cell Type - For Autos, Radio	(b)	467,785	777,316	757,230	934,132
For Power Plants	(b)	13,131	63,967	71,876	125,142
Other	12,164	69,184	32,967	43,118	54,601
Stoves, Ranges etc. - Electric - Cooking - Domestic Stoves	8,757	21,720	(27,120	41,931	40,591
Stovettes, Cookers etc.			71,464	59,279	61,081
Commercial Ranges etc.			592	637	396
Refrigerators - Household - Electric	29,499	14,325	(53,545	85,206	94,058
Gas			30,322	26,266	12,427
Kerosene			28,482	34,602	21,157
Commercial - Electric	(b)	3,967	4,797	3,619	5,153

(a) Output in all factories. (b) Not collected for these years.

4. **EMPLOYMENT:** The number of persons employed shown in Tables I, II and VII has been adjusted to represent the average employment over the whole year in those cases where short time was worked. In the following table, the factories have been classified according to the average number employed during the actual period worked for the years 1938-39, 1945-46 and 1947-48 to 1949-50.

TABLE VI : FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED :
AUSTRALIA

Number of Persons employed in each Factory	1938-39		1945-46		1947-48		1948-49		1949-50	
	No. of Fac-tories	No. Em- ployed	No. of Fac-tories	No. Em- ployed	No. of Fac-tories	No. Em- ployed	No. of Fac-tories	No. Em- ployed	No. of Fac-tories	No. Em- ployed
Under 4	89	203	92	208	153	345	175	372	190	403
4	23	92	4	164	53	212	60	240	56	224
5 to 10	90	620	129	898	185	1,283	197	1,354	201	1,401
11 to 20	61	891	94	1,416	121	1,758	129	1,949	117	1,734
21 to 50	54	1,612	105	3,301	123	4,062	127	3,989	141	4,289
51 to 100	19	1,392	42	3,169	40	2,837	46	3,344	49	3,530
101 to 200	}	}	27	3,715	32	4,327	29	4,077	27	3,826
201 to 300			8	1,970	10	2,452	9	2,089	13	3,295
301 to 400			4	1,377	5	1,725	7	2,394	3	1,115
401 to 750			5	2,393	5	2,826	6	3,143	8	4,581
751 and over			4	4,442	5	5,883	6	7,074	6	7,399
TOTAL:	360	10,690	551	23,053	732	27,715	791	30,025	811	31,797
Average No. employed per Factory	30		42		38		38		39	

Further details of employment in the industrial group - Electrical Machinery and Equipment, are furnished in the two tables following. In Table VII the numbers of persons employed are shown for the years 1938-39, 1948-49 and 1949-50 according to the nature of their employment, but because of the change in classification which operated from 1945-46, comparison between 1938-39 and the later years shown is not wholly effective.

TABLE VII : PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS :
AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Working Proprietors	234	483	481	-	13	11
Managerial and Clerical Staff, including Salaried Managers and Working Directors	}	}	}	}	}	}
Chemists, Draftsmen and Other Laboratory and Research Staff	8,836	643	648	1,495	48	51
Foremen and Overseers	}	}	}	}	}	}
Workers in Factory (Skilled and Unskilled)	}	}	}	}	}	}
Other (Carters, Messengers, etc.)	90	59	61	11	11	12
TOTAL:	9,160	23,982	24,508	1,506	5,979	6,448

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TABLE IV - ARTICLES PRODUCED IN ALL FACTORIES : AUSTRALIA 1949-50

Item	All Factories	
	Quantity No.	Value £.
Refrigerators - Household - Electric - Compression	80,515	6,257,957
Absorption	12,576	585,360
Gas	16,510	737,786
Kerosene and Oil	52,740	2,870,586
Commercial - Electric	5,016	1,172,857

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The number of persons employed on or about the 15th June, for the years 1939, 1946 and 1948 to 1950 are distributed according to age and sex in Table VIII.

TABLE VIII : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX :

AUSTRALIA

(Excluding Working Proprietors)

	Under 16 years	16 years	17 years	18 years	19 years	20 years	Total 16 to 20 years	21 years and over	Total All Ages
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M A L E S

1939	461	(a)	(a)	(a)	(a)	(a)	2,935	5,407	8,803
1946	337	564	761	818	757	704	3,604	14,524	18,465
1948	238	509	612	692	737	791	3,341	19,174	22,753
1949	247	483	541	594	616	719	2,953	20,523	23,723
1950	255	428	500	504	614	690	2,736	22,664	25,655

F E M A L E S

1939	111	(a)	(a)	(a)	(a)	(a)	717	626	1,454
1946	112	200	243	317	292	293	1,345	3,407	4,864
1948	97	176	218	231	224	323	1,172	4,261	5,530
1949	84	177	198	236	227	264	1,102	5,013	6,199
1950	92	165	211	197	246	260	1,079	5,950	7,121

(a) Details not collected.

5. POWER EQUIPMENT: Statistics of the power equipment of the factories included in this group are given in the next table. The details given include the rated horse-power of engines ordinarily in use, together with those in reserve or idle.

TABLE IX : TYPES AND RATED HORSE-POWER OF ENGINES : AUSTRALIA

Class of Engines	Rated Horse-Power of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Steam - Reciprocating ..	-	24	3	-	-	-
Internal Combustion - Petrol or Other Light Oils	2	305	668	10	443	1,575
Heavy Oils ..	15	187	423	-	846	822
Water ..	-	-	-	-	-	-
Total Prime Movers	17	516	1,094	10	1,289	2,397
Motors driven by electricity - Purchased ..	12,026	38,866	42,201	538	2,103	3,154
Own Generation	(a) 344	(a) 12	(a) 6	68	150	-
Total Electricity	12,370	38,878	42,207	606	2,253	3,154
TOTAL POWER USED	12,043	39,382	43,995	616	3,542	5,551

(a) These motors are driven by electricity generated by prime movers shown above, and are excluded from statistics of total power used, to avoid duplication.

6. **POWER, FUEL, AND LIGHT, ETC., USED:** Details of the quantities and values of the various items of power, fuel and light etc. used in Electrical Machinery and Equipment factories during the years 1938-39, 1948-49 and 1949-50 are shown in the following table -

TABLE X : POWER, FUEL AND LIGHT, ETC., USED : AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Power, Fuel and Light -							
Coal - Black	Ton	2,183	4,302	6,812	2,900	10,349	16,986
Brown	"	44	3,390	4,173	77	4,308	5,538
Brown Coal	"	(a)	37	29	(a)	73	70
Briquettes	"	861	3,266	3,169	1,638	8,853	10,909
Coke	"	32	297	272	52	752	760
Wood	"						
Fuel Oil	gal.	123,790	305,468	414,333	3,393	17,342	26,168
Tar (Fuel)	"	(b)	25,531	16,587	(c)	919	611
Electricity	-	(d)	(d)	(d)	66,836	247,588	296,514
Gas	-	(d)	(d)	(d)	15,903	39,351	45,198
Other (Charcoal, etc.)	-	(d)	(d)	(d)	354	2,189	1,569
Water and Lubricating Oil, etc, used	-	(d)	(d)	(d)	13,441	34,201	49,263
TOTAL:		(d)	(d)	(d)	104,594	365,925	453,586

(a) Included with Brown Coal. (b) Not available. (c) Included with Other (Charcoal, etc.). (d) Value only available.

7. **VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY:** Particulars of the book values of premises occupied and plant used in Electrical Machinery and Equipment factories at the 30th June for the years 1938-39, 1945-46 and 1947-48 to 1949-50 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during the same period are also shown. It should be noted that the amounts shown are those recorded by factories which were operating during each year and that changes in their number, as well as other factors, affect comparison from year to year.

TABLE XI : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC. : AUSTRALIA (£)

Year	Book Value as at 30th June (a)		Additions & Replacements made during year		Depreciation allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
1938-39	1,627,183	896,553	68,910	191,711	42,981	88,640
1945-46	3,507,375	2,083,853	189,451	470,912	70,561	274,842
1947-48	4,488,206	2,987,963	296,753	898,284	50,862	427,911
1948-49	5,382,287	3,664,289	737,692	1,098,654	63,196	511,021
1949-50	6,293,018	4,127,152	797,400	1,095,465	110,366	654,845

(a) Includes estimated value of rented premises and machinery.

8. EXTERNAL TRADE: The values of imports and exports of Electrical Machinery and Equipment (excluding Wireless Apparatus) - are given in the following tables for the years 1938-39, 1945-46 and 1947-48 to 1949-50.

TABLE XII : VALUE OF IMPORTS - ELECTRICAL MACHINERY AND EQUIPMENT OTHER THAN WIRELESS APPARATUS : AUSTRALIA

(£A. f.o.b.)

Particulars	1938-39	1945-46	1947-48	1948-49	1949-50
Batteries and Accumulators	47,125	95,909	107,064	159,915	529,059*
Cable and Wire (Covered)	1,374,399	694,957	1,813,388	3,984,839	5,802,103
Carbon Manufactures	96,576	111,733	260,416	257,013	248,709
Dynamo Electric Machinery - Alternators, Generators, etc.	78,307	105,549	249,089	292,364	432,847
Current Generating Machinery n.e.i.	17,806	567,204	420,683	841,518	1,834,522
Electric Motors under 1 H.P.	196,001	116,457	626,092	1,310,729	728,719
Electric Motors over 1 H.P.	602,405	151,556	786,281	1,393,101	1,824,100
Other	26,272	22,708	150,111	29,106	30,289
Electric Lamps	206,153	192,720	425,255	535,424	641,875
Heating and Cooking Appliances	152,339	50,683	529,347	983,499	480,953
Measuring and Recording Instruments	176,513	167,555	220,714	323,507	321,848
Protective Equipment	89,797	84,598	179,474	311,421	445,922
Regulating, Starting and Controlling Apparatus	457,921	551,614	880,917	1,130,463	2,085,593
Telegraph and Telephone Equipment	1,209,776	1,272,654	1,384,433	3,533,579	6,139,562
Transformers and Rectifiers	121,793	181,708	364,312	270,362	686,807
Other Electrical Machinery and Appliances	381,210	454,674	1,254,454	1,318,138	1,757,873

TABLE XIII : VALUE OF EXPORTS : ELECTRICAL MACHINERY & EQUIPMENT OTHER THAN WIRELESS APPARATUS : AUSTRALIA

(£A. f.o.b.)

Particulars	1938-39	1945-46	1947-48	1948-49	1949-50
Batteries and Accumulators	} 312,560	(134,104	189,388	460,654	287,044
Cable and Wire (Covered)		(43,591	194,544	190,816	84,339
Lamps for lighting and heating		(48,973	40,006	26,955	37,387
Motors and Generators		(53,116	109,031	156,913	129,654
Other Electrical Machinery and Appliances	80,070	134,603	319,365	367,473	463,233

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA. A.C.T. 17TH OCTOBER, 1951.