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*Not for General Publication*

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA. A.C.T.

22ND SEPTEMBER, 1950.

**PROJECTIONS OF FUTURE POPULATION OF AUSTRALIA**

1950-1975

(In Millions)

(These projections are prepared for the (Queensland) Royal Commission on the Sugar Industry on the basis of data available in September, 1950. They are approximate and rounded off to the nearest hundred thousand).  
(See letter to the Commission dated 22nd September, 1950).

30th June	PROJECTION											
	A			B			C			D		
	Of population at 30th June, 1950 (subsequent migration excluded)	Resulting from Net Immigration after 30th June, 1950 of 100,000 persons per annum (a)	Total	Of population at 30th June, 1950 (subsequent migration excluded)	Resulting from Net Immigration after 30th June, 1950 of 100,000 persons per annum (a)	Total	Of population at 30th June, 1950 (subsequent migration excluded)	Resulting from Net Immigration after 30th June, 1950 of 100,000 persons per annum (a)	Total	Of population at 30th June, 1950 (subsequent migration excluded)	Resulting from Net Immigration after 30th June, 1950 of 100,000 persons per annum (a)	Total
	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
1950	8.2	-	8.2	8.2	-	8.2	8.2	-	8.2	8.2	-	8.2
1952	8.4	0.2	8.6	8.4	0.2	8.6	8.4	0.2	8.6	8.4	0.2	8.6
1955	8.7	0.5	9.2	8.7	0.5	9.2	8.7	0.5	9.2	8.7	0.5	9.2
1957	8.8	0.7	9.5	8.8	0.7	9.5	8.8	0.7	9.5	8.8	0.7	9.5
1960	9.1	1.1	10.2	9.0	1.1	10.1	8.9	1.0	9.9	8.9	1.0	9.9
1962	9.3	1.3	10.6	9.2	1.3	10.5	9.0	1.3	10.3	8.9	1.3	10.2
1965	9.5	1.7	11.2	9.3	1.7	11.0	9.1	1.6	10.7	9.0	1.6	10.6
1967	9.7	1.9	11.6	9.4	1.9	11.3	9.1	1.9	11.0	9.1	1.9	11.0
1970	9.9	2.3	12.2	9.6	2.3	11.9	9.3	2.2	11.5	9.1	2.2	11.3
1972	10.2	2.6	12.8	9.7	2.5	12.2	9.3	2.5	11.8	9.2	2.5	11.7
1975	10.5	3.0	13.5	9.8	2.9	12.7	9.5	2.9	12.4	9.2	2.8	12.0

(a) Estimated future populations resulting from net immigration at other levels may, on the same assumptions as to the sex and age distribution of migrants, be derived by varying the figures in Column (2) proportionately. For example, if net immigration is assumed to be 50,000 persons per annum after 30th June, 1950, the future populations from such migrants and their natural increase would be one-half of those shown above. Total populations in Column (3) will be the sum of the figures in Column (1) and in Column (2) as varied.

The ASSUMPTIONS made in calculating the above projections are -

- Fertility** - A - 1949 specific fertility rates assumed throughout.  
 B - 1949 specific fertility rates assumed to 1955, thence diminishing uniformly from 1949 rates in 1955 to 1939 specific fertility rates in period 1970-75.  
 C - 1949 specific fertility rates assumed constant from 1950 to 1955, and 1939 specific fertility rates assumed constant from 1956 to 1975.  
 D - 1949 specific fertility rates assumed from 1950 to 1955; 1939 specific fertility rates in 1956 diminishing thereafter uniformly by about 1 per cent per annum.

**Mortality** - 1946-1948 experience assumed throughout.

**Migration** - See note (a) above following the table. Calculation is based on 100,000 net immigration per annum as a CONVENIENT UNIT to facilitate pro rata calculation for any other unit or combination of units. Use of this convenient unit does not imply any view as to absorptive capacity or probable rate of net immigration. Sex and age distributions of recorded net migration for year 1949 assumed to apply to new migrants on arrival or departure. In order to facilitate the calculations as to natural increase from future migrants, the migration in each five-yearly period 1950-55, 1955-60 etc. has been assumed to take place in batches of 500,000 persons at the end of the respective periods, i.e. at 30th June of years 1955, 1960, etc. This understates such natural increase but the amount of such understatement is insignificant in relation to total projected population.

Note. The estimated population at 30th June, 1950, is based on the results of the 1947 Census and subsequent recorded net migration and natural increase to 30th June, 1950 (preliminary figures). The projected populations at later dates have been calculated at five-yearly intervals (30th June of years 1955, 1960, 1965 etc.).

1950-1975

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1950-1975

UNITED STATES AIR FORCE  
T.O.A. 4011140

MEMORANDUM FOR THE DIRECTOR

DATE

BY

Subject: [Illegible text]

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
								3.0			
							1.8	3.8	3.0		
							3.5	3.0	1.0		
							0.8	3.0	1.1		
							0.9	3.0	1.1		
							0.0	3.1	1.1		
							1.1	3.1	1.1		
							0.5	3.1	1.1		
							1.1	3.1	1.1		
							0.0	3.1	1.1		

S/T 1980

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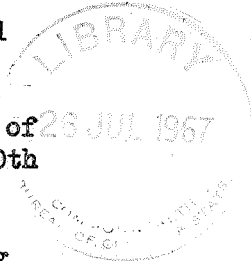
PROJECTIONS OF THE POPULATION OF AUSTRALIA  
1955 TO 1975 (FIVE YEARLY INTERVALS)

The attached projections of the population of Australia were prepared in 1956 for the Inter-departmental Committee on the Retiring Age set up to review and report on problems associated with the employment of persons aged 60 years and over. Subsequent demand for information concerning prospective population growth has been substantial and the projections have been reproduced in mimeographed form to meet requests for data of this nature.

Users should note carefully the assumptions and the limitations of these projections as set out below.

Projections have been made separately for the two components -

- (i) The estimated population at 30th June, 1955, projected without regard to subsequent migration;
- (ii) The increment of population from a hypothetical level of net immigration of 100,000 persons per annum after 30th June, 1955.



No projections of the total population obtained by combining (i) and (ii) have been included. It is to be stressed that such totals would have no significance in view of the fact that the level of migration assumed since 30th June, 1955, is purely hypothetical. This hypothetical figure of 100,000 persons per annum is only a convenient unit to facilitate pro-rata calculations for any other unit. Its use is not meant to imply any view as to absorptive capacity or probable rate of net immigration.

The forecasting of population movements is highly speculative, and has not been attempted in the present projections, which are purely hypothetical calculations of the components of population that would be attained if various assumptions were realised. It is not possible to forecast the forces determining population change, particularly over any length of time. Trends in natural increase and migration in Australia are influenced by many factors, such as economic conditions, Government policy, occurrence or fear of war, assurance of peace and the personal reactions of millions of individuals to changing circumstances.

The projections are not to be taken in any way as official estimates or forecasts by the Commonwealth Statistician. If quoted, they are to be referred to as hypothetical calculations in the preceding terms.

Two sets of projections ("A" and "B") have been made depending on the assumption as to fertility. Fertility and mortality experiences have been assumed at approximately current levels until June, 1960, and subsequently as described in the footnotes to the tables.

## ESTIMATED AND PROJECTED POPULATION OF AUSTRALIA

1955 TO 1975

## MALES

Age Last Birthday (Years)	Estimate, 30th June 1955	Projections as at 30th June -							
		1960		1965		1970		1975	
		A	B	A	B	A	B	A	B
(i) Exclusive of Migration Subsequent to 30th June, 1955									
0 - 4	502,532	497,931	506,639	454,838	557,588	439,286	631,138	427,741	
5 - 9	481,642	499,112		494,665	503,315	451,775	553,930	436,404	
10 - 14	377,656	479,814		497,244		492,815	501,433	450,085	
15 - 19	314,866	375,694		477,507		494,846		490,435	
20 - 24	309,014	312,370		372,874		473,905		491,109	
25 - 29	370,135	306,429		309,747		369,741		469,926	
30 - 34	374,710	366,827		303,776		307,072		366,553	
35 - 39	328,178	370,681		363,047		300,644		303,918	
40 - 44	332,475	323,239		365,536		357,982		296,442	
45 - 49	293,598	324,496		316,192		357,568		350,128	
50 - 54	247,591	282,005		312,889		304,847		344,738	
55 - 59	203,631	231,107		264,849		293,854		286,241	
60 - 64	176,082	182,233		208,649		239,119		265,306	
65 - 69	148,436	148,119		155,719		178,164		204,184	
70 - 74	96,700	114,465		116,406		122,619		140,152	
75 - 79	57,651	64,738		79,329		80,416		84,990	
80 - 84	27,541	31,402		36,984		45,356		45,772	
85 and over	14,613	13,902		16,704		19,787		24,094	
Total	4,657,051	4,924,564	5,198,756	5,146,955	5,499,638	5,329,796	5,850,489	5,478,218	

## (ii) Net Immigration Subsequent to 30th June, 1955 at Assumed Rate of 100,000 Persons Per Annum

0 - 4	-	29,830	63,860	58,738	96,518	79,841	131,867	95,708
5 - 9	-	33,840		63,476	97,283	92,195	129,727	113,159
10 - 14	-	25,867		59,587		89,112	122,793	117,723
15 - 19	-	24,182		49,929		83,486		112,866
20 - 24	-	41,011		65,008		90,563		123,865
25 - 29	-	49,537		90,209		114,004		139,345
30 - 34	-	34,096		83,212		123,532		147,121
35 - 39	-	21,371		55,133		103,743		143,647
40 - 44	-	17,180		38,276		71,576		119,512
45 - 49	-	11,400		28,230		48,872		81,460
50 - 54	-	4,784		15,800		32,029		51,943
55 - 59	-	2,851		7,365		17,728		32,973
60 - 64	-	1,516		4,101		8,185		17,560
65 - 69	-	802		2,107		4,318		7,817
70 - 74	-	413		1,050		2,087		3,825
75 - 79	-	177		465		908		1,631
80 - 84	-	54		157		321		577
85 and over	-	25		55		106		188
Total	-	298,936	628,020	622,898	984,371	962,606	1,368,717	1,310,920

(i) Represents the estimated population at 30th June, 1955, projected on the basis of the following assumptions: -

**Fertility - Basis A:** Average of 1952-54 age-specific fertility rates throughout;

**Basis B:** Average of 1952-54 age-specific fertility rates until 30th June, 1960, thereafter diminishing uniformly to 1939 rates in the period 1970-75.

**Mortality -** Rates of mortality contained in the 1946-48 Tables, suitably adjusted in the light of the latest information available, have been applied uniformly to each year to June, 1960; on the basis of mortality records over many years, lighter rates at all ages have been applied uniformly throughout the subsequent period.

(ii) Represents the increments from Overseas Migration on the convenient unit of 100,000 persons per annum (assuming the sex and age distributions recorded for net migration during the period 1952-54), together with natural increase calculated on the same assumptions as above for fertility and mortality.

**Note:** The assumptions above are to be carefully noted, and the projections to be interpreted and used in the light of the explanatory notes in the accompanying statement.

## ESTIMATED AND PROJECTED POPULATION OF AUSTRALIA

1955 TO 1975

FEMALES

Age Last Birthday (Years)	Estimate, 30th June, 1955	Projections as at 30th June -							
		1960		1965		1970		1975	
		A & B	A	B	A	B	A	B	
(i) Exclusive of Migration Subsequent to 30th June, 1955									
0 - 4	481,737	477,023	485,108	435,432	533,891	420,617	604,315	409,563	
5 - 9	459,238	479,144		474,557	482,600	433,181	531,131	418,442	
10 - 14	362,496	458,116		478,061		473,485	481,509	432,202	
15 - 19	299,017	361,672		457,281		477,104		472,619	
20 - 24	284,839	298,030		360,724		456,077		475,843	
25 - 29	333,871	283,466		296,887		359,348		454,328	
30 - 34	351,689	331,823		282,076		295,438		357,599	
35 - 39	319,026	348,931		329,763		280,324		293,610	
40 - 44	315,711	315,687		346,052		327,037		278,007	
45 - 49	268,514	311,000		311,891		341,891		323,087	
50 - 54	230,330	261,598		304,009		304,817		334,134	
55 - 59	212,901	220,931		251,673		292,480		293,209	
60 - 64	198,343	200,282		208,817		237,917		276,502	
65 - 69	167,237	180,263		183,635		191,416		218,159	
70 - 74	117,655	142,889		156,280		159,288		165,961	
75 - 79	77,694	90,306		112,603		122,908		125,513	
80 - 84	40,028	49,872		60,512		75,487		82,106	
85 and over	23,314	25,959		33,858		44,127		52,772	
Total	4,543,640	4,836,992	5,133,787	5,084,111	5,455,635	5,292,942	5,820,404	5,463,656	

## (ii) Net Immigration Subsequent to 30th June, 1955 at Assumed Rate of 100,000 Persons per Annum

0 - 4	-	28,898	61,469	56,565	92,740	76,771	126,586	91,963
5 - 9	-	31,166		59,922	92,324	87,446	123,434	107,547
10 - 14	-	22,029		53,130		81,821	114,149	109,282
15 - 19	-	16,440		38,434		69,479		98,117
20 - 24	-	18,278		34,685		56,622		87,586
25 - 29	-	26,686		44,909		61,253		83,107
30 - 34	-	26,956		53,532		71,667		87,930
35 - 39	-	20,285		47,093		73,498		91,522
40 - 44	-	15,438		35,582		62,169		88,353
45 - 49	-	9,838		25,108		45,012		71,281
50 - 54	-	5,350		14,982		29,911		49,375
55 - 59	-	3,977		9,135		18,407		32,772
60 - 64	-	2,934		6,705		11,584		20,356
65 - 69	-	2,025		4,731		8,191		12,668
70 - 74	-	1,237		3,009		5,359		8,362
75 - 79	-	580		1,567		2,962		4,817
80 - 84	-	113		510		1,173		2,108
85 and over	-	34		105		336		754
Total	-	232,264	494,608	489,704	784,508	763,661	1,103,277	1,047,900

(i) Represents the estimated population at 30th June, 1955, projected on the basis of the following assumptions: -

**Fertility - Basis A:** Average of 1952-54 age-specific fertility rates throughout;

**Basis B:** Average of 1952-54 age-specific fertility rates until 30th June, 1960, thereafter diminishing uniformly to 1939 rates in the period 1970-75.

**Mortality -** Rates of mortality contained in the 1946-48 Tables, suitably adjusted in the light of the latest information available, have been applied uniformly to each year to June, 1960; on the basis of mortality records over many years, lighter rates at all ages have been applied uniformly throughout the subsequent period.

(ii) Represents the increments from Overseas Migration on the convenient unit of 100,000 persons per annum (assuming the sex and age distributions recorded for net migration during the period 1952-54), together with natural increase calculated on the same assumptions as above for fertility and mortality.

**Note:** The assumptions above are to be carefully noted, and the projections to be interpreted and used in the light of the explanatory notes in the accompanying statement.

## ESTIMATED AND PROJECTED POPULATION OF AUSTRALIA

1955 TO 1975

## PERSONS

Age Last Birthday (Years)	Estimate, 30th June, 1955	Projections as at 30th June -							
		1960		1965		1970		1975	
		A	B	A	B	A	B	A	B
(i) Exclusive of Migration Subsequent to 30th June, 1955									
0 - 4	984,269	974,954	991,747	890,270	1,091,479	859,903	1,235,453	837,304	
5 - 9	940,880	978,256	969,222		985,915	884,956	1,085,061	854,846	
10 - 14	740,152	937,930	975,305		966,300		982,942	882,287	
15 - 19	613,883	737,366	934,788		971,950		963,054		
20 - 24	593,853	610,400	733,598		929,982		966,952		
25 - 29	704,006	589,895	606,634		729,089		924,254		
30 - 34	726,399	698,650	585,852		602,510		724,152		
35 - 39	647,204	719,612	692,810		580,968		597,528		
40 - 44	648,186	638,926	711,588		685,019		574,449		
45 - 49	562,112	635,496	628,083		699,459		673,215		
50 - 54	477,921	543,603	616,898		609,664		678,872		
55 - 59	416,532	452,038	516,522		586,334		579,450		
60 - 64	374,425	382,515	417,466		477,036		541,808		
65 - 69	315,673	328,382	339,354		369,580		422,343		
70 - 74	214,355	257,354	272,686		281,907		306,113		
75 - 79	135,345	155,044	191,932		203,324		210,503		
80 - 84	67,569	81,274	97,496		120,843		127,878		
85 and over	37,927	39,861	50,562		63,914		76,866		
Total	9,200,691	9,761,556	10,332,543	10,231,066	10,955,273	10,622,738	11,670,893	10,941,874	

## (ii) Net Immigration Subsequent to 30th June, 1955 at Assumed Rate of 100,000 Persons per Annum

0 - 4	-	58,728	125,329	115,303	189,258	156,612	258,453	187,671
5 - 9	-	65,006	123,398		189,607	179,641	253,161	220,706
10 - 14	-	47,896	112,717		170,933		236,942	227,005
15 - 19	-	40,622	88,363		152,965		210,983	
20 - 24	-	59,289	99,693		147,185		211,451	
25 - 29	-	76,223	135,118		175,257		222,452	
30 - 34	-	61,052	136,744		195,199		235,051	
35 - 39	-	41,656	102,226		177,241		235,169	
40 - 44	-	32,618	73,858		133,745		207,865	
45 - 49	-	21,238	53,338		93,884		152,741	
50 - 54	-	10,134	30,782		61,940		101,318	
55 - 59	-	6,828	16,500		36,135		65,745	
60 - 64	-	4,450	10,806		19,769		37,916	
65 - 69	-	2,827	6,838		12,509		20,485	
70 - 74	-	1,650	4,059		7,446		12,187	
75 - 79	-	757	2,032		3,870		6,448	
80 - 84	-	167	667		1,494		2,685	
85 and over	-	59	160		442		942	
Total	-	531,200	1,122,628	1,112,602	1,768,879	1,726,267	2,471,994	2,358,820

(i) Represents the estimated population at 30th June, 1955, projected on the basis of the following assumptions: -

**Fertility - Basis A:** Average of 1952-54 age-specific fertility rates throughout;

**Basis B:** Average of 1952-54 age-specific fertility rates until 30th June, 1960, thereafter diminishing uniformly to 1939 rates in the period 1970-75.

**Mortality -** Rates of mortality contained in the 1946-48 Tables, suitably adjusted in the light of the latest information available, have been applied uniformly to each year to June, 1960; on the basis of mortality records over many years, lighter rates at all ages have been applied uniformly throughout the subsequent period.

(ii) Represents the increments from Overseas Migration on the convenient unit of 100,000 persons per annum (assuming the sex and age distributions recorded for net migration during the period 1952-54), together with natural increase calculated on the same assumptions as above for fertility and mortality.

**Note:** The assumptions above are to be carefully noted, and the projections to be interpreted and used in the light of the explanatory notes in the accompanying statement.