

WOOL PRODUCTION AND UTILISATION

No. 19 1970-71



**COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
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WOOL PRODUCTION AND UTILISATION, AUSTRALIA

NO. 19 : 1970-71

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SYMBOLS USED IN THIS BULLETIN

- n.a. Not available
- p. Preliminary. Subject to revision
- .. Nil or less than half the final digit shown, or not applicable

NOTE. Any discrepancies between totals and sums of components in tables are due to rounding.

FOREWORD

This bulletin contains statistics of wool production and utilisation for 1970-71, and comparisons with earlier years. Details of clean wool yields and conversion factors used in compiling the statistics are shown in Section IV. These yields and factors are currently being reviewed. More detailed statistics of wool production, including State data, numbers of sheep and lambs shorn and average fleece weights are shown in Tables 2 and 3. Particulars of wool selling brokers' receipts, disposals, and stocks of new season's wool are shown in Table 7. Tables have also been included showing world production and consumption of raw wool and exports of raw wool according to principal countries of consignment.

Attention is drawn especially to the two series of calculations on Australian wool consumption shown in tables throughout this bulletin. The first, Consumption of Raw Wool, measures consumption in terms of scoured wool used by mills (on the woollen and worsted systems) and for the manufacture of felt (including hats) (e.g., see Table 9); this series has been included mainly for the purpose of comparisons with similar data published for many overseas countries. The other series shown, Consumption of Processed Wool, is calculated from the usage of woollen and worsted yarn (including wool and other fibre mixtures) and scoured wool for felt manufacture (including hats) (e.g., see Table 11); it is considered to be a more satisfactory measure of Australian wool consumption, principally because allowance is made for significant quantities of wool tops exported. However, both series relate to "consumption" of wool by the wool textile industry, and should not be used as measures of consumption in terms of retail purchases. It has not been possible to estimate wool consumption at the retail level because of the impracticability of obtaining reliable data concerning the wool content of the multiplicity of woollen and worsted piece-goods and finished articles exported and imported and held as stocks by manufacturers, wholesalers and retailers.

To correspond with the two series relating to wool consumption, wool exports and imports also are expressed in total in two series, namely, Raw Wool and Total Wool (raw wool plus semi-processed wool). Wool exported on skins is included in raw wool exports.

For the purposes of this publication, unless otherwise stated, raw wool is greasy, slipe, scoured and/or carbonised wool. Semi-processed wool includes wool tops, woollen and worsted yarn and unprocessed felt. Wool processors include scourers, carbonisers, top makers, yarn spinners and fellmongers.

The statistics are shown, mainly in terms of "greasy basis" (greasy equivalent weight).

Provision in these statistics for the production and usage of the by-products of carding, combing and spinning (noils, fettlings and waste) presents a special problem and the method of treatment of these by-products is described under Section IV - Wool Yields and Conversion Factors, (1) General Notes.

I. SUMMARY

The principal statistics of Australian wool production and utilisation for the years 1966-67 to 1970-71 are summarised in the following table. The differences between total production and the sum of exports and consumption are accounted for principally by changes in stocks and imports, particulars of which will be found in the detailed tables in Section II.

The estimates of wool consumption shown represent usage by the Australian wool textile industry, measured in the terms described by footnotes (d) and (e). As mentioned in the foreword, the figures do not necessarily illustrate accurately trends in retail consumption of wool, principally because no allowance has been made for the wool content of changes in stocks, and of exports and imports of woollen and worsted piece-goods and finished articles. Imports of woollen and worsted piece-goods vary considerably from year to year.

TABLE 1. - SUMMARY OF STATISTICS OF WOOL PRODUCTION AND UTILISATION : AUSTRALIA

(million lb greasy basis)

Year ended 30 June	Total wool production (a)	Exports of wool (a)		Consumption of wool	
		Raw (b)	Total (c)	Raw (d)	Processed (e)
1967	1,762.3	1,632.1	1,677.1	124.0	82.7
1968	1,769.5	1,683.0	1,727.1	130.9	80.0
1969	1,947.8	1,760.6	1,807.6	132.0	77.9
1970	2,035.7	1,883.2	1,926.0	133.6	83.1
1971p	1,952.2	1,721.8	1,760.4	136.8	87.9

(a) Includes wool exported on skins. (b) Greasy, slipe, scoured and carbonised wool. (c) Raw wool plus wool tops and woollen and worsted yarn. (d) Measured as scoured wool used on the woollen and worsted systems and for the manufacture of felt (including hats). (e) Measured as woollen and worsted yarn used for weaving and knitting and scoured wool used for manufacture of felt (including hats).

II. DETAILED TABLES OF WOOL PRODUCTION AND UTILISATION

TABLE 2. - SHEEP AND LAMBS SHORN, PRODUCTION OF SHORN WOOL AND AVERAGE FLEECE WEIGHT

Year ended 30 June	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Australia		
	Sheep and lambs						Sheep	Lambs	Sheep and lambs
	NUMBER SHORN ('000)								
1967	64,454	37,158	20,229	20,191	28,681	4,517	144,710	30,811	175,522
1968	68,445	35,244	21,041	19,274	31,809	4,572	148,410	32,268	180,679
1969	68,513	34,879	22,002	19,393	35,842	4,632	153,627	31,899	185,526
1970	72,874	39,612	18,141	21,954	35,530	4,792	157,091	36,074	193,165
1971p	71,720	40,753	15,139	21,965	37,132	4,806	157,943	33,342	191,285

SHORN WOOL (INCLUDING CRUTCHINGS) PRODUCED (million lb greasy basis)

1967	579.2	314.7	184.0	222.1	261.0	38.7	1,504.1	98.2	1,602.2
1968	603.5	274.8	202.3	202.2	286.3	33.7	1,505.5	99.6	1,605.1
1969	623.4	299.0	225.4	222.6	359.0	41.8	1,660.9	112.3	1,773.2
1970	702.7	356.4	174.0	255.0	316.3	42.8	1,726.9	122.9	1,849.8
1971p	645.7	359.1	146.5	237.3	333.2	42.3	1,651.5	114.6	1,766.3

AVERAGE FLEECE WEIGHT (lb greasy weight)

1967	8.99	8.47	9.10	11.00	9.10	8.56	10.39	3.19	9.13
1968	8.82	7.80	9.62	10.49	9.00	7.37	10.14	3.09	8.88
1969	9.10	8.57	10.25	11.48	10.01	9.02	10.81	3.52	9.56
1970	9.64	9.00	9.59	11.62	8.90	8.93	10.99	3.41	9.58
1971p	9.00	8.81	9.67	10.80	8.97	8.79	10.46	3.42	9.21

TABLE 3. - WOOL PRODUCTION
(million lb)

Year ended 30 June	Greasy basis						
	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Australia (a)
SHORN (INCLUDING CRUTCHINGS)							
1967	579.2	314.7	184.0	222.1	261.0	33.7	1,602.2
1968	603.5	274.8	202.3	202.2	296.3	33.7	1,605.1
1969	623.4	299.0	225.4	222.6	359.0	41.8	1,773.2
1970	702.7	356.4	174.0	255.0	316.3	42.8	1,849.8
1971p	645.7	359.1	146.5	237.3	333.2	42.3	1,766.3
DEAD AND FELLMONGERED							
1967	14.7	5.3	1.6	(b)	2.9	(b)	24.8
1968	14.7	4.1	1.6	(b)	3.4	(b)	23.9
1969	14.7	5.2	1.8	(b)	3.3	(b)	25.2
1970	12.7	3.7	1.7	(b)	3.8	(b)	22.2
1971p	10.9	3.3	1.2	(b)	1.5	(b)	17.2
ESTIMATED QUANTITY EXPORTED ON SKINS							
1967	28.8	58.4	17.8	(b)	8.7	(b)	135.3
1968	32.2	53.5	22.9	(b)	10.6	(b)	140.5
1969	35.4	60.2	19.8	(b)	13.4	(b)	149.3
1970	34.4	67.1	20.6	(b)	16.4	(b)	163.7
1971p	36.3	68.5	21.1	(b)	15.8	(b)	168.7
ESTIMATED TOTAL PRODUCTION							
1967	622.7	378.5	203.7	239.2	272.6	43.2	1,762.3
1968	650.4	332.4	226.8	219.0	300.2	38.3	1,769.5
1969	673.5	364.3	247.0	238.1	375.7	47.0	1,947.8
1970	749.8	427.2	196.4	275.0	336.5	48.2	2,035.7
1971p	692.9	430.9	168.8	259.1	350.5	47.8	1,952.2

(a) Includes Northern Territory and Australian Capital Territory. (b) Not available for publication.

TABLE 4. - EXPORTS OF RAW WOOL ACCORDING TO PRINCIPAL COUNTRIES OF ORIGIN

AUSTRALIA					
Country of consignment	1966-67	1967-68	1968-69	1969-70	1970-71
Million lb actual weight					
GREASY AND SLIPE					
Belgium - Luxembourg	98.5	95.9	84.6	85.5	97.3
China, Republic of (Taiwan)	7.0	11.9	22.4	27.2	31.4
France	106.2	120.6	130.8	133.2	137.4
Germany, Federal Republic of	71.2	100.8	96.9	101.6	101.7
India	29.6	21.6	34.0	42.2	37.3
Italy	151.7	123.1	130.7	135.7	93.6
Japan	492.5	493.1	530.4	569.3	561.5
Mexico	22.1	23.9	24.9	15.1	14.5
Netherlands	14.0	15.2	29.0	50.5	18.3
Poland	30.7	35.5	34.5	33.8	28.0
Turkey	20.9	15.6	20.7	14.8	16.4
U.S.S.R.	29.2	46.1	62.0	67.4	85.5
United Kingdom	145.8	143.6	115.9	138.1	75.3
United States of America	55.7	60.2	60.6	46.7	21.5
Yugoslavia	23.6	19.8	18.8	26.6	36.7
Other	69.2	62.5	74.8	83.7	83.2
<u>TOTAL</u>	1,367.9	1,394.4	1,471.0	1,571.4	1,444.6
SCOURED AND CARBONISED					
Canada	3.8	5.1	2.2	2.7	2.1
China, Republic of (Taiwan)	1.5	0.9	1.5	3.2	4.5
France	2.9	2.4	2.3	1.3	2.3
Germany, Federal Republic of	7.1	8.6	6.8	5.4	8.4
Greece	1.1	1.5	1.8	1.3	2.1
Hong Kong	2.8	2.7	4.5	4.3	4.0
Iran	4.7	4.7	4.1	4.9	4.2
Italy	8.0	8.7	7.4	7.7	7.8
Japan	4.2	4.0	3.6	3.5	2.1
Korea, Republic of	1.0	1.8	2.7	1.5	1.6
U.S.S.R.	2.5	3.7	7.7	15.4	2.3
United Kingdom	16.9	18.9	13.5	13.2	13.5
United States of America	16.2	18.4	19.1	13.9	5.6
Other	7.2	8.6	8.2	10.3	11.8
<u>TOTAL</u>	79.9	90.0	85.4	88.6	72.3
TOPS					
Belgium - Luxembourg	2.2	1.4	1.1	1.5	1.1
Canada	3.4	3.2	3.2	3.3	3.1
China, Republic of (Taiwan)	0.2	0.3	0.5	0.1	0.1
Greece	1.9	1.9	1.9	1.9	1.7
Hong Kong	6.1	7.2	7.8	5.9	4.8
Iran	1.2	0.6	1.4	1.5	1.1
New Zealand	1.7	0.8	0.8	0.6	0.4
Pakistan	0.7	0.8	0.7	0.6	0.7
United Kingdom	0.5	0.7	0.8	0.6	1.0
United States of America	4.6	4.1	2.2	2.4	1.2
Other	1.5	1.6	3.7	3.5	4.4
<u>TOTAL</u>	24.0	22.6	24.1	21.9	19.6

TABLE 5. - EXPORTS OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

(million lb)

Year ended 30 June	Raw				Semi-processed		Tot. l wool
	Greasy & slipe	Scoured & carbonised	Wool exported on skins	Total raw wool	Wool tops	Woollen & worsted yarn	

GREASY BASIS

1967	1,368.2	128.6	135.3	1,632.1	44.7	0.3	1,677.1
1968	1,395.4	147.1	140.5	1,683.0	43.9	0.2	1,727.1
1969	1,471.8	139.5	149.3	1,760.6	46.8	0.2	1,807.6
1970	1,571.8	147.6	163.7	1,883.2	42.5	0.3	1,926.0
1971p	1,434.9	118.1	168.7	1,721.8	38.0	0.5	1,760.4

TABLE 6. - IMPORTS OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

(million lb)

Year ended 30 June	Greasy basis			Clean equivalent		
	Raw (a)	Semi- processed (b)	Total wool	Raw (a)	Semi- processed (b)	Total wool
1967	13.1	1.1	14.2	6.9	0.6	7.5
1968	15.0	1.3	16.3	7.7	0.7	8.4
1969	25.3	2.0	27.2	12.9	1.1	14.0
1970	28.0	3.6	31.6	13.8	2.0	15.8
1971p	33.0	4.3	37.2	16.8	2.4	19.3

(a) Greasy, slipe, scoured and carbonised wool. (b) Wool tops and woollen and worsted yarn.

**TABLE 7. - WOOL SELLING BROKERS' RECEIVALS, DISPOSALS AND
STOCKS OF NEW SEASON'S WOOL : AUSTRALIA**
('000 bales) (a)

(Source : National Council of Wool Selling Brokers of Australia)

Year ended 30 June	Receivals		Disposed of by		Awaiting disposal at end of year
	First hand	For re-sale (b)	Sale	Shipment (c)	
1967	4,813.5	74.5	4,650.8	6.5	230.7
1968	4,841.9	85.6	4,736.4	5.9	185.2
1969	5,198.8	82.3	5,023.5	2.7	254.9
1970	5,438.9	79.2	5,345.6	2.5	170.1
1971	5,044.5	166.6	4,967.4	5.4	238.3

(a) The weight of a bale of greasy wool is approximately 300 lb. The particulars shown include very small quantities of scoured wool, the bale weight of which is about 220 lb.

(b) New season's wool re-sold for any reason. (c) Shipped abroad for sale.

TABLE 8. - STOCKS OF RAW AND SEMI-PROCESSED WOOL (a) : AUSTRALIA
(million lb)

At 30 June	Raw wool					Semi-processed wool held by wool processors		Total wool
	Held by wool processors		Held by brokers, dealers, etc.(b)		Total raw wool	Wool tops	Woollen & worsted yarn	
	Greasy & slipe	Scoured & carbonised	Sold	Unsold				
GREASY BASIS								
1967	42.4	24.6	160.0	101.6	328.6	13.6	12.6	354.9
1968	38.1	23.0	145.6	79.4	286.1	16.7	14.0	316.8
1969	36.9	21.6	188.8	105.3	352.7	12.5	14.8	380.0
1970	49.9	25.5	231.3	71.8	379.1	14.0	15.0	408.0
1971p	44.7	29.9	319.0	96.0	489.6	15.9	15.7	521.1
CLEAN EQUIVALENT								
1967	24.2	11.7	91.0	57.8	184.6	7.8	7.2	199.7
1968	21.4	10.9	81.7	44.5	158.5	9.3	8.0	175.8
1969	21.1	10.2	107.8	60.2	199.3	7.0	6.3	214.6
1970	28.2	14.1	131.2	40.7	212.2	7.8	8.5	228.6
1971p	25.2	14.2	181.2	54.5	275.2	8.8	8.9	293.0

(a) Recorded stocks held in Australia. (b) Assumed to be all greasy.

TABLE 9. - CONSUMPTION OF RAW WOOL (a) : AUSTRALIA
(million lb)

Year ended 30 June	Greasy basis			Clean equivalent		
	Used on woollen & worsted systems	Used on felt manufacture (including hats)	Total	Used on woollen & worsted systems	Used for felt manufacture (including hats)	Total
1967	121.8	2.2	124.0	71.4	1.1	72.5
1968	128.4	2.5	130.9	73.0	1.2	74.2
1969	129.5	2.5	132.0	73.6	1.2	74.8
1970	131.1	2.5	133.6	74.6	1.2	75.8
1971p	134.3	2.5	136.8	76.4	1.2	77.6

(a) Measured as scoured wool used on the woollen and worsted systems and for felt manufacture (including hats).

TABLE 10. - SUPPLIES AND UTILISATION OF RAW WOOL : AUSTRALIA
(million lb)

Year ended 30 June	Estimated net change in stocks (a) (b)	Production (c)	Imports (a)	Total supplies	Exports (a) (c)	Consumption of raw wool (d)
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GREASY BASIS

1967	(+) 19.3	1,762.3	13.1	1,756.1	1,632.1	124.0
1968	(-) 29.4	1,769.5	15.0	1,813.9	1,683.0	130.9
1969	(+) 80.5	1,947.8	25.3	1,892.6	1,760.6	132.0
1970	(+) 46.9	2,035.7	28.0	2,016.8	1,883.2	133.6
1971p	(+) 126.6	1,952.2	33.0	1,858.6	1,721.8	136.8

(a) Greasy, slips, scoured and carbonised wool. (b) Balance figure. (c) Includes wool exported on skins. (d) Measured as scoured wool used on the woollen and worsted systems and for felt manufacture (including hats).

TABLE 11. - CONSUMPTION OF PROCESSED WOOL : AUSTRALIA

(million lb)

Year ended 30 June	Worsted yarns used (including hand knitting yarns)		Woollen yarns used		Scoured wool used for felt manufacture (including hats)	Total
	Pure yarns	Mixed yarns (a)	Pure yarns	Mixed yarns (a)		
GREASY BASIS						
1967	35.4	6.4	38.6		2.2	82.7
1968	34.4	5.8	37.2		2.5	80.0
1969	33.7	5.1	36.5		2.5	77.9
1970	34.1	6.4	40.0		2.5	83.1
1971p	35.7	7.4	42.2		2.5	87.9
CLEAN EQUIVALENT						
1967	20.4	3.7	23.5		1.1	48.7
1968	19.2	3.2	22.7		1.2	46.3
1969	18.8	2.8	22.3		1.2	45.1
1970	19.0	3.6	24.4		1.2	48.2
1971p	19.9	4.2	25.7		1.2	51.0

(a) Wool content of yarns containing a mixture of wool and other fibres.

TABLE 12. - SUPPLIES AND UTILISATION OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

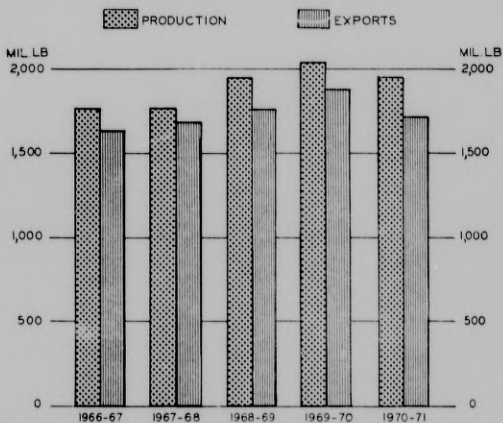
(million lb)

Year ended 30 June	Estimated net change in stocks (a) (b)	Production (c)	Imports (a)	Total supplies	Exports (a) (c)	Consumption of processed wool (d)
GREASY BASIS						
1967	(+) 16.7	1,762.3	14.2	1,759.8	1,677.1	82.7
1968	(-) 21.3	1,769.5	16.3	1,807.1	1,727.1	80.0
1969	(+) 89.5	1,947.8	27.2	1,885.5	1,807.6	77.9
1970	(+) 58.2	2,035.7	31.6	2,009.1	1,926.0	83.1
1971p	(+) 141.1	1,952.2	37.2	1,848.3	1,760.4	87.9

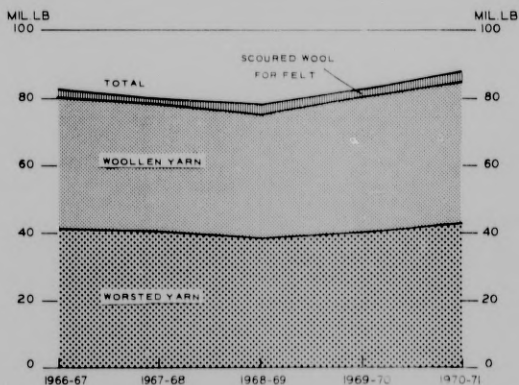
(a) Greasy, slip, scoured and carbonised wool, wool tops and woollen and worsted yarn (pure and mixed). (b) Balance figure. (c) Includes wool exported on skins.

(d) Measured as woollen and worsted yarn (pure and mixed) used for weaving and knitting and scoured wool used for felt manufacture (including hats).

PRODUCTION AND EXPORTS OF RAW WOOL : AUSTRALIA (Greasy Basis)



CONSUMPTION OF PROCESSED WOOL : AUSTRALIA (Greasy Basis)



III. WORLD PRODUCTION AND CONSUMPTION OF RAW WOOL

- NOTE. (i) Production figures in Table 13 are given according to the "Wool Season" in the countries concerned. These vary from one country to another. For example, in Australia, New Zealand and South Africa the season runs from July to June; in the United Kingdom, for April to March.
- (ii) Consumption figures in Table 14 normally relate to calendar years.

TABLE 13. - ESTIMATED WORLD PRODUCTION OF RAW WOOL

(Greasy basis)

(Source for countries other than Australia : Commonwealth Secretariat)

Country	1966-67	1967-68	1968-69	1969-70	1970-71	
	million lb					%
Australia	1,762	1,770	1,948	2,036	1,952	32.4
U.S.S.R.	818	870	915	860	915	15.2
New Zealand	709	728	732	723	735	12.2
Argentina	502	494	461	444	427	7.1
South Africa	292	304	314	319	257	4.3
United States of America	236	227	213	195	187	3.1
Uruguay	178	186	181	176	164	2.7
United Kingdom	132	127	119	106	104	1.7
Other (a)	1,284	1,289	1,298	1,287	1,280	21.3
<u>TOTAL</u>	5,914	5,997	6,181	6,145	6,022	100.0
Clean equivalent	3,423	3,469	3,573	3,554	3,484	

(a) Includes estimates of production in mainland China and Outer Mongolia which totalled 175 mil. lb in each of the years 1966-67 to 1968-69.

TABLE 14. - ESTIMATED WORLD CONSUMPTION OF VIRGIN WOOL

(Clean equivalent)

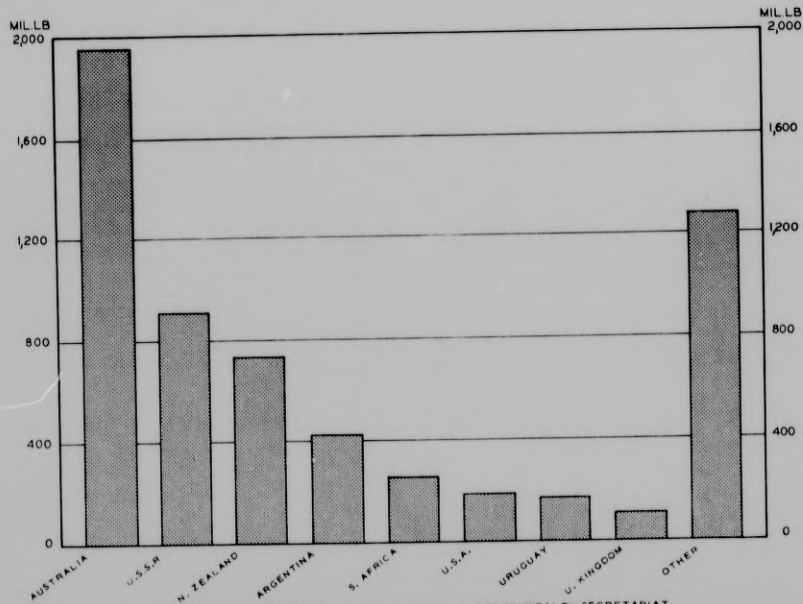
(Source : Commonwealth Secretariat)

Country	1966	1967	1968	1969	1970	
	million lb					%
Japan	367	354	371	395	403	11.6
United Kingdom	388	360	391	385	337	9.7
United States of America	360	303	318	305	236	6.8
France	263	217	239	268	293	8.5
Italy	242	218	211	237	205	5.9
Germany, Federal Republic of	151	123	149	158	150	4.3
Belgium	96	80	88	93	88	2.5
Australia	72	76	73	75	81	2.3
Turkey	60	59	58	60	n.a.	n.a.
U.S.S.R., China (mainland) and Eastern Europe	815	853	926	899	970	28.0
Other	590	604	625	656	702	20.3
<u>TOTAL</u>	3,404	3,247	3,449	3,531	3,465	100.0

ESTIMATED WORLD PRODUCTION OF RAW WOOL : 1970-71

(Greasy Basis)

Total World Production - 6,022 million lb



SOURCE: FOR COUNTRIES OTHER THAN AUSTRALIA; COMMONWEALTH SECRETARIAT

IV. WOOL YIELDS AND CONVERSION FACTORS, AUSTRALIA

1. GENERAL NOTES

The wool yields and conversion factors set out below are in all cases Australian averages intended for use in preparing Australian tables on supply and utilisation of wool and for similar purposes. The factors have been adopted for uniform use in compiling Australian statistics, after consultation with the Bureau of Agricultural Economics, the Australian Wool Statistical Service and Statisticians in each of the States. They are not necessarily suitable for use with data for individual States.

Attention is drawn to the treatment of noils, fettlings and waste wool produced as by-products of carding, combing and spinning operations. These products are not taken into account directly, but allowance is made for them in the factors which are used for converting scoured wool and tops and yarn into greasy and clean equivalent (e.g. if 180 lb greasy wool produces 120 lb scoured wool which in turn produces 100 lb tops and 20 lb noils, a factor of 1.80 is used in converting tops exported or used to a greasy equivalent). This will result in some inaccuracy if the quantities of noils, fettlings and waste wools used and exported are disproportionate to the quantities of tops and yarns used and exported. It is not, however, practicable to take these items separately into account.

2. DEFINITIONS

- Scoured weight. The weight of scoured wool, including moisture regain and such vegetable matter as remains in the wool after scouring (but before carbonising in the case of carbonising wools).
- Clean weight. The weight of scoured or carbonised wool in a completely clean state (i.e. with all vegetable matter removed) including standard moisture regain.
- Carbonised weight. The weight of carbonised wool after carbonising including moisture regain.
- Scoured yield. Scoured weight as a percentage of original greasy weight.
- Clean yield. Clean weight as a percentage of original greasy weight.
- Clean yield from scoured. Clean weight as a percentage of scoured weight.
- Carbonised yield from scoured. Carbonised weight as a percentage of scoured weight.
- Standard moisture regain. Bradford standard regains are adopted (16 per cent for carding and carbonising wools; 19 per cent on tops for combing wools).

3. YIELDS AND CONVERSION FACTORS

(a) Production.

- (i) Shorn wool. The average clean yields for the whole clip for each season as assessed by the Wool Statistical Service have been used in converting from greasy to clean weight. These are shown in Table 15.
- (ii) Skin wools. The assessed yields for the clip have also been used as the clean yield for skin wools, including wool exported on skins. Investigations have disclosed that the yield of Australian skin wools (in total) does not vary significantly from that of the clip.

(b) Imports.

- (i) Greasy wool. As most of this wool comes from New Zealand, a standard yield has been adopted based on the approximate clean yield of New Zealand greasy wool exported (taken as 69 per cent).
- (ii) Scoured and carbonised wool. Standard factors of 2.0 lb greasy = 1.0 lb scoured and 2.5 lb greasy = 1.0 lb carbonised have been adopted. For details of factors adopted concerning clean yield from scoured and carbonised see c(ii) below. The same standard factors have been used for exports of these classes of wool from Australia.
- (iii) Tops and yarn. Standard factors (subject to periodical review) of 2.00 lb greasy or 1.15 lb clean per lb of tops and 1.75 lb greasy or 1.00 lb clean per lb of yarn have been used.

(c) Exports.

- (i) Greasy wool. The clean yield of wool exported as greasy may be estimated on the basis of the assessed yield for the whole clip plus $1\frac{1}{2}$ points. This is to account for the low-yielding dirty wools scoured before export. The yields actually used are shown in Table 15.
- (ii) Scoured and carbonised wool. A standard factor of 93 per cent clean yield from scoured for Australian scoured wool (excluding carbonising wools) has been adopted. This allows for vegetable content and variation from standard moisture regain under Australian conditions in recorded weights of scoured wool. For carbonised wool it has been assumed for practical purposes the carbonised weight represents clean weight. From 1952-53 greasy yield factors have been calculated each year using statistical data obtained from Australian scourers, and taking into account yield factors used for scoured and carbonised wool consumed in Australia. These factors allow for the low-yielding wools exported.
- (iii) Wool exported on skins. See 3a (ii)
- (iv) Slipe wool. Relatively small quantities of slipe wool are exported and standard factors of 1.25 lb greasy or 0.70 lb clean = 1.00 lb slipe have been adopted.
- (v) Tops. The factors used to convert to greasy and clean bases have been derived from statistics of operations of Australian mills and are shown in Table 16.
- (vi) Yarn. In view of the comparatively small quantities involved, standard factors for woollen and worsted yarn combined have been adopted on the basis of data from the operations of Australian mills for recent years. These are 1.75 lb greasy or 1.00 lb clean = 1.00 lb yarn. They will be reviewed periodically.

(d) Stocks.(i) Factory stocks.

Greasy and slipe. The average clean yields of the whole clip for the year ending on the date to which stocks relate have been used. No allowance has been made for the small quantities of slipe included.

Scoured and carbonised. Standard factors (subjected to periodical review) of 95 per cent clean yield from scoured and carbonised and 2.0 lb greasy = 1.0 lb scoured and carbonised (scoured and carbonised yield of 50 per cent) have been used.

Tops. See 3c(v)

Yarn. See 3c(vi)

- (ii) Brokers' and Dealers stocks. For practical purposes, it has been assumed that wool in brokers' and dealers stores is all greasy wool. The assessed clean yield for the whole clip has been assumed to apply to these wools.

(e) Consumption.

- (i) Scoured and carbonised wool used on woollen and worsted systems. A standard factor of 95 per cent clean yield from scoured and carbonised has been adopted. The factors used to convert recorded usage of scoured and carbonised wool to greasy equivalent are derived from statistics of scouring operations by Australian mills on own account and are shown in Table 15.
- (ii) Scoured and carbonised wool used for felting. A standard factor of 95 per cent clean yield from scoured and carbonised has been adopted. A standard factor of 2.0 lb greasy = 1.0 lb scoured and carbonised has been used having regard to advice obtained from felt manufacturers as to type, condition, etc., of wools used.
- (iii) Woollen and worsted yarn used. The factors used to convert actual weights to clean and greasy equivalents are based on statistics of the operations of Australian wool textile mills (See Table 16). From 1953-54 to 1963-64 information was available separately on yarns containing a mixture of wool and other fibres and these were taken into account separately from pure yarns in calculating greasy and clean equivalent of processed wools used in Australia. From 1956-57 to 1962-63, information on mixed yarns containing wool was available only on those in which wool is the predominant fibre and, as a result, the factors used in the bulletin have had to be calculated from the quantity of wool tops or scoured wool used in all mixed yarns (whether wool predominates or not) in relation to the production of mixed yarns in which wool predominates. Any error resulting from this will, however, be largely offset by the fact that information on consumption of yarns is also confined to yarns in which wool predominates.

TABLE 15. - WOOL YIELDS AND CONVERSION FACTORS : AUSTRALIA(i) Average clean yields for Australian clip as assessed by the Wool Statistical Service

<u>Year</u>	<u>Clean yield</u> %	<u>Year</u>	<u>Clean yield</u> %
1966-67	56.9	1969-70	56.6
1967-68	56.1	1970-71	56.8
1968-69	57.1		

(ii) Estimated average clean yields of exports of greasy wool, Australia

<u>Year</u>	<u>Clean yield</u> %	<u>Year</u>	<u>Clean yield</u> %
1966-67	58.4	1969-70	58.1
1967-68	57.6	1970-71	58.3
1968-69	58.6		

(NOTE. These represent the assessed clean yield for the whole clip plus approximately $1\frac{1}{2}$ points.)

(iii) Scoured and carbonised yield of all wool scoured by Australian Wool Textile Mills

<u>Year</u>	<u>Scoured and carbonised yield</u> %	<u>Year</u>	<u>Scoured and carbonised yield</u> %
1966-67	61.8	1969-70	60.0
1967-68	60.0	1970-71	60.0
1968-69	60.0		

(iv) Scoured and carbonised yield of wool exported as scoured and carbonised, Australia

<u>Year</u>	<u>Scoured and carbonised yield</u> %	<u>Year</u>	<u>Scoured and carbonised yield</u> %
1966-67	62.1	1969-70	61.2
1967-68	61.2	1970-71	61.2
1968-69	61.2		

TABLE 16. - FACTORS TO CONVERT TOPS AND YARN TO GREASY, SCOURED, AND CLEAN BASES

AUSTRALIA

(Based on statistics of the operations of Australian Wool Textile Mills)

Year ended 30 June	Wool tops	Worsted yarn		Woollen yarn
LB GREASY PER LB OF PRODUCT				
		Pure	Mixed (a)	
1967	1.85	2.13	1.24	1.20
1968	1.94	2.10	1.24	1.28
1969	1.94	2.10	1.21	1.28
1970	1.94	2.10	1.43	1.28
1971p	1.94	2.10	1.61	1.28
LB SCOURED OR CARBONISED PER LB OF PRODUCT				
		Pure	Mixed (a)	
1967	1.14	1.32	0.77	0.74
1968	1.16	1.26	0.74	0.80
1969	1.16	1.26	0.72	0.80
1970	1.16	1.26	0.86	0.80
1971p	1.16	1.26	0.97	0.80
LB CLEAN PER LB OF PRODUCT				
	(b)	Pure (b)	Mixed (a)	(c)
1967	1.06	1.23	0.71	0.73
1968	1.08	1.17	0.69	0.78
1969	1.08	1.17	0.67	0.78
1970	1.08	1.17	0.80	0.78
1971p	1.08	1.17	0.90	0.78

(a) Yarns containing a mixture of wool and other fibres. From 1956-57 the factors are based on the total quantity of wool used in all mixed yarns in relation to the quantity of mixed yarns made predominantly from wool. (b) Standard clean yield from scoured of 93 per cent. (c) Standard clean yield from scoured or carbonised wool of 98 per cent.

APPENDIX

TABLE 17. - RURAL HOLDINGS CLASSIFIED ACCORDING TO AREA AND SIZE OF SHEEP FLOCK, 31 MARCH 1971

Area of holding (acres)	Size of sheep flock (numbers)															Holdings with no sheep	Total all holdings
	1-49	50-99	100-199	200-299	300-399	400-499	500-699	700-999	1,000-1,399	1,400-2,000	2,000-3,000	3,000-4,999	5,000-9,999	10,000-20,000	20,000 & over		
NEW SOUTH WALES																	
1- 99	971	322	290	94	36	11	9	2	0	1	0	0	0	0	0	1,736	17,435
100- 199	242	130	251	193	146	75	65	24	9	2	0	0	0	0	0	1,137	5,675
200- 299	131	57	122	128	137	120	162	123	54	12	3	1	0	0	0	1,050	3,696
300- 399	112	51	107	107	120	107	179	192	116	29	8	0	0	0	0	1,128	2,477
400- 499	89	32	77	101	113	133	237	263	192	75	24	1	0	0	0	1,337	1,671
500- 599	76	26	57	84	101	137	261	351	310	183	32	2	0	0	0	1,620	1,312
600- 799	101	50	91	114	165	183	426	596	624	462	197	27	1	1	0	3,038	1,701
800- 999	81	39	77	88	109	123	307	501	600	574	387	82	1	0	0	2,969	990
1,000-1,399	141	69	114	102	148	157	435	813	1,093	1,071	825	355	24	0	0	5,347	1,440
1,400-1,999	118	56	83	66	91	98	265	533	828	966	854	640	123	0	0	4,721	981
2,000-2,999	112	50	71	59	56	62	143	321	484	851	949	720	328	9	0	4,215	799
3,000-4,999	91	49	45	37	38	45	66	148	270	464	739	815	433	64	0	3,304	597
5,000-9,999	40	26	23	21	21	12	32	67	108	180	411	595	434	122	9	2,101	333
10,000 & over	17	13	16	5	9	10	8	17	29	58	2-7	741	939	248	82	2,419	136
TOTAL	2,322	970	1,424	1,199	1,290	1,273	2,595	3,951	4,717	4,928	4,656	3,979	2,283	444	91	36,122	39,243
VICTORIA																	
1- 99	1,432	410	390	175	84	23	20	5	1	1	0	0	0	0	0	2,541	18,919
100- 199	861	243	423	397	270	181	192	79	22	2	0	0	0	0	0	2,670	9,117
200- 299	513	139	268	282	249	229	301	218	100	20	4	0	0	0	0	2,323	4,324
300- 399	317	103	263	255	258	238	425	419	282	113	18	1	0	0	0	2,692	2,465
400- 499	166	62	116	174	178	168	315	356	330	213	60	7	0	0	0	2,145	1,154
500- 599	104	62	99	146	128	118	246	333	345	350	166	22	0	0	0	2,119	656
600- 799	147	60	141	236	250	272	442	578	591	591	446	78	1	0	0	3,833	842
800- 999	70	28	68	109	167	165	343	344	402	429	368	152	3	0	0	2,648	391
1,000-1,399	64	27	64	117	158	188	381	464	500	542	539	389	29	0	0	3,462	352
1,400-1,999	30	15	29	40	81	95	260	345	324	349	387	400	128	0	0	2,483	200
2,000-2,999	10	16	12	16	31	37	128	237	195	215	210	270	209	6	0	1,592	109
3,000-4,999	9	3	4	4	11	22	46	86	129	126	111	152	197	41	0	941	45
5,000-9,999	3	0	5	1	1	2	9	12	45	59	47	44	65	61	10	364	16
10,000 & over	6	1	3	1	3	2	1	3	12	11	12	12	17	9	13	106	46
TOTAL	3,732	1,169	1,885	1,953	1,869	1,740	3,109	3,479	3,278	3,021	2,368	1,527	649	117	23	29,919	38,636
																	68,555

TABLE 17. - RURAL HOLDINGS CLASSIFIED ACCORDING TO AREA AND SIZE OF SHEEP FLOCK, 31 MARCH 1971 - CONTD

Area of holding (acres)	Size of sheep flock (numbers)															Holdings with no sheep	Total all holdings
	1-49	50-99	100-199	200-299	300-399	400-499	500-699	700-999	1,000-1,399	1,400-2,000	2,000-2,999	3,000-4,999	5,000-9,999	10,000-20,000	20,000 & over		
QUEENSLAND																	
1- 99	87	9	6	1	2	1	1	0	0	0	0	0	0	0	0	107	7,859
100- 199	54	9	13	4	4	0	1	1	0	0	0	0	0	0	0	86	7,394
200- 299	35	10	7	6	3	5	1	1	0	0	0	0	0	0	0	68	4,079
300- 399	36	11	15	9	4	2	3	1	0	0	0	0	0	0	0	81	3,331
400- 499	28	10	10	8	3	1	3	1	1	0	0	0	0	0	0	65	2,188
500- 599	30	8	7	6	5	2	8	2	0	0	0	0	0	0	0	68	1,584
600- 799	54	14	25	19	15	17	5	4	3	1	0	0	0	0	0	157	2,368
800- 999	39	9	9	6	10	13	8	11	1	1	0	0	0	0	0	107	1,272
1,000-1,399	48	17	16	16	21	27	39	32	21	7	0	1	0	0	0	245	1,833
1,400-1,999	51	16	18	10	13	19	29	29	32	13	2	0	0	0	0	232	1,072
2,000-2,999	33	21	18	16	15	14	32	44	67	61	14	1	0	0	0	336	1,093
3,000-4,999	41	24	16	9	11	15	26	48	65	80	113	26	1	0	0	475	961
5,000-9,999	38	34	24	19	13	18	12	32	55	88	191	165	27	0	0	716	1,073
10,000 & over	42	37	51	25	17	14	37	42	66	124	279	702	706	166	41	2,349	2,333
TOTAL	616	229	235	154	136	148	205	248	311	375	599	895	734	166	41	5,092	38,307
SOUTH AUSTRALIA																	
1- 99	907	230	182	60	17	5	0	0	0	0	0	0	0	0	0	1,401	10,121
100- 199	174	99	193	130	71	33	22	7	0	2	1	0	0	0	0	732	1,231
200- 299	91	50	114	100	78	76	56	28	7	1	0	0	0	0	0	601	556
300- 399	60	25	92	93	80	67	89	70	21	4	0	0	0	0	0	601	281
400- 499	31	26	53	78	99	93	121	79	65	11	1	0	0	0	0	657	196
500- 599	15	18	41	60	84	72	106	101	86	39	15	0	0	0	0	637	127
600- 799	34	21	47	119	126	156	259	230	145	93	50	3	0	0	0	1,283	134
800- 999	14	11	33	48	82	141	276	262	145	135	108	16	1	0	0	1,272	102
1,000-1,399	21	16	28	67	79	115	329	469	374	231	233	57	4	0	0	2,023	125
1,400-1,999	14	6	29	34	67	69	194	380	466	354	255	123	16	1	0	2,008	110
2,000-2,999	13	3	16	25	54	61	171	241	295	340	221	132	45	0	0	1,623	119
3,000-4,999	15	4	8	18	20	39	131	246	269	260	221	150	77	3	0	1,461	87
5,000-9,999	2	2	7	7	9	11	49	107	174	166	126	104	68	15	0	847	52
10,000 & over	1	2	0	1	1	3	9	17	53	84	121	136	125	55	20	628	72
TOTAL	1,392	513	843	840	867	941	1,812	2,237	2,100	1,726	1,352	721	336	74	20	15,774	13,313
																29,087	

TABLE 17. - RURAL HOLDINGS CLASSIFIED ACCORDING TO AREA AND SIZE OF SHEEP FLOCK 31 MARCH 1971 - CONTD

Area of holding (acres)	Size of sheep flock (number)																Holdings with no sheep	Total all holdings
	1-49	50-99	100-199	200-299	300-399	400-499	500-699	700-999	1,000-1,399	1,400-2,000	2,000-3,000	3,000-5,000	5,000-10,000	10,000-20,000	20,000 over	Total		
WESTERN AUSTRALIA																		
1- 99	311	61	57	21	3	0	0	0	0	0	0	0	0	0	0	453	3,843	4,296
100- 199	93	53	74	46	29	10	8	2	1	0	0	0	0	1	0	317	863	1,180
200- 299	80	33	33	37	23	19	29	21	8	2	0	0	0	0	0	285	670	955
300- 399	62	29	29	19	25	18	41	38	10	3	0	1	0	0	0	275	516	791
400- 499	58	18	26	29	31	24	41	45	37	9	1	0	0	0	0	319	353	672
500- 599	30	21	20	21	21	19	31	46	36	24	5	1	0	0	0	275	257	532
600- 799	53	21	32	33	26	25	66	84	100	66	29	3	0	0	0	538	327	865
800- 999	26	13	22	32	23	21	52	89	98	99	76	3	0	0	0	554	210	764
1,000-1,399	30	21	25	36	24	27	86	132	202	241	237	67	0	0	0	1,128	260	1,388
1,400-1,999	16	10	12	19	17	27	62	163	273	344	413	273	23	0	0	1,652	210	1,862
2,000-2,999	9	9	22	14	27	27	63	172	342	489	709	652	155	1	0	2,691	348	3,039
3,000-4,999	16	14	15	31	25	38	97	160	288	480	762	746	377	12	1	3,062	649	3,711
5,000-9,999	3	3	7	2	2	7	20	42	69	178	338	498	323	66	1	1,559	78	1,637
10,000 & over	4	2	5	3	3	4	7	8	16	22	65	162	228	173	55	757	143	900
Total	791	308	379	343	279	266	603	1,002	1,480	1,957	2,635	2,406	1,106	253	57	13,865	8,727	22,592
TASMANIA																		
1- 99	608	194	113	39	12	6	1	0	0	0	0	0	0	0	0	973	2,429	3,402
100- 199	243	129	181	100	63	24	28	10	2	0	0	0	0	0	0	780	1,290	2,070
200- 299	138	85	95	53	67	45	54	37	12	2	0	0	0	0	0	588	670	1,253
300- 399	76	43	61	38	41	22	54	47	22	2	0	0	0	0	0	406	295	701
400- 499	33	21	27	36	22	20	24	25	23	21	2	0	0	0	0	254	180	434
500- 599	23	8	27	11	10	11	24	23	17	19	10	1	0	0	0	184	118	302
600- 799	26	17	23	17	15	15	16	26	34	32	29	8	0	0	0	258	129	387
800- 999	20	8	10	13	11	9	13	23	24	36	30	9	0	0	0	206	59	265
1,000-1,399	6	4	20	8	13	13	21	22	24	34	42	25	3	0	0	235	70	305
1,400-1,999	8	2	5	8	5	3	11	24	17	21	23	43	8	0	0	178	35	213
2,000-2,999	9	0	7	9	4	3	14	7	22	18	24	34	20	0	0	171	19	190
3,000-4,999	2	0	3	5	3	7	3	8	11	19	22	40	39	6	0	168	10	178
5,000-9,999	0	2	1	1	1	1	4	6	9	6	10	22	38	18	0	119	9	128
10,000 & over	1	1	0	0	0	2	1	0	1	2	4	10	22	35	10	89	4	93
Total	1,193	514	573	338	267	181	268	258	218	212	196	192	130	59	10	4,609	5,317	9,926

TABLE 17. - RURAL HOLDINGS CLASSIFIED ACCORDING TO AREA AND SIZE OF SHEEP FLOCK, 31 MARCH 1971 - CONTD

Area of holding (acres)	Size of sheep flock (numbers)																Total	Holdings with no sheep	Total all holdings
	1-49	50-99	100-199	200-299	300-399	400-499	500-599	700-799	1,000-1,399	1,400-1,999	2,000-2,999	3,000-4,999	5,000-9,999	10,000-19,999	20,000 & over				
AUSTRALIA																			
1- 99	4,316	1,226	1,038	390	154	46	31	7	1	2	..	..	..	..	..	7,211	60,606	67,817	
100- 199	1,667	663	1,135	870	583	323	316	123	34	6	1	..	..	..	1	..	5,722	25,570	
200- 299	988	374	639	606	557	494	603	428	181	37	7	1	..	..	..	..	4,915	13,927	
300- 399	663	262	567	521	528	454	791	767	451	151	26	2	..	..	..	..	5,183	9,365	
400- 499	405	169	309	426	446	439	741	769	648	329	88	8	..	..	..	..	4,777	5,677	
500- 599	278	143	251	328	349	359	676	856	794	615	228	26	..	..	..	..	4,903	4,054	
600- 799	415	183	359	538	597	668	1,214	1,518	1,497	1,245	751	119	2	1	..	..	9,107	5,501	
800- 999	250	108	219	296	402	472	999	1,230	1,270	1,274	969	262	5	..	..	..	7,756	3,024	
1,000-1,399	310	154	267	346	443	527	1,291	1,932	2,214	2,126	1,876	894	60	..	..	..	12,440	4,080	
1,400-1,999	237	105	176	177	274	311	821	1,474	1,940	2,047	1,934	1,479	298	1	..	..	11,274	2,608	
2,000-2,999	186	99	146	139	187	204	551	1,022	1,405	1,980	2,127	1,809	757	16	..	..	10,628	2,487	
3,000-4,999	174	94	91	104	108	166	369	696	1,032	1,429	1,968	1,929	1,124	126	1	..	9,411	2,349	
5,000-9,999	86	67	67	51	47	51	126	266	460	677	1,123	1,428	955	282	20	..	5,706	1,561	
10,000 & over	71	56	75	35	33	35	63	87	177	301	708	1,763	2,037	686	221	..	6,348	2,734	
TOTAL(a)	10,053	3,709	5,346	4,832	4,715	4,553	8,602	11,186	12,119	12,240	11,834	9,724	5,248	1,116	242	105,519	143,975	249,494	

(a) Includes Northern Territory and Australian Capital Territory.

TABLE 18. - RURAL HOLDINGS CLASSIFIED ACCORDING TO SIZE OF SHEEP FLOCK, STATES 31 MARCH 1970 AND 1971

State	Size of sheep flock (numbers)																Total	Holdings with no sheep	Total all holdings
	1-49	50-99	100-199	200-299	300-399	400-499	500-699	700-999	1,000-1,399	1,400-1,999	2,000-2,999	3,000-4,999	5,000-9,999	10,000-19,999	20,000 & over				
1970																			
N.S.W.	2,247	1,036	1,391	1,342	1,412	1,457	3,071	4,426	5,095	4,958	4,492	3,741	1,937	365	82	37,052	38,856	75,908	
Vic.	3,805	1,162	2,074	2,041	2,051	1,823	3,243	3,700	3,434	3,128	2,288	1,395	595	108	19	30,866	38,632	69,498	
Qld	568	230	242	161	125	98	201	252	322	381	619	977	855	188	47	5,266	38,563	43,829	
S.A.	1,280	492	843	788	890	940	1,799	2,295	2,215	1,783	1,393	739	324	82	25	15,888	13,147	29,035	
W.A.	814	318	343	369	310	309	673	1,157	1,623	2,130	2,617	2,214	992	243	59	14,171	8,766	22,937	
Tas.	1,212	503	600	384	254	213	318	270	248	211	217	186	139	52	7	4,814	5,345	10,159	
AUST. (a)	9,934	3,746	5,499	5,093	5,046	4,843	9,318	12,110	12,953	12,609	11,656	9,259	4,852	1,039	239	108,196	143,685	251,881	
1971																			
N.S.W.	2,322	970	1,424	1,199	1,290	1,273	2,595	3,951	4,717	4,928	4,656	3,979	2,283	444	91	36,122	39,243	75,365	
Vic.	3,732	1,169	1,885	1,953	1,869	1,740	3,109	3,479	3,278	3,021	2,368	1,527	649	117	23	29,919	38,636	68,555	
Qld	616	229	235	154	136	148	205	248	311	375	599	895	734	166	41	5,092	38,307	43,399	
S.A.	1,392	513	843	840	867	941	1,812	2,237	2,100	1,726	1,352	721	336	74	20	15,774	13,313	29,087	
W.A.	791	308	379	343	279	266	603	1,002	1,480	1,957	2,635	2,406	1,106	253	57	13,865	8,727	22,592	
Tas.	1,193	514	573	338	267	181	268	258	218	212	196	192	130	59	10	4,609	5,317	9,926	
AUST. (a)	10,053	3,709	5,346	4,832	4,715	4,553	8,602	11,186	12,119	12,240	11,834	9,724	5,248	1,116	242	105,519	143,975	249,494	

(a) Includes Northern Territory and Australian Capital Territory.

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA, A.C.T. 2600

14 JULY 1972

J. P. O'NEILL
COMMONWEALTH STATISTICIAN

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 49 0211 extension 382 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.