

E-5
385 1763
Aus
n

STATISTICAL BULLETIN:

**WOOL PRODUCTION
AND
UTILIZATION**

No. 12 1963-64



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA,
AUSTRALIA

STATISTICAL BULLETIN : WOOL PRODUCTION AND UTILIZATION, AUSTRALIA

NO. 12 : 1963-64

CONTENTS

<u>Table</u>		<u>Page</u>
	<u>I. SUMMARY</u>	
1.	Summary of Statistics of Wool Production and Utilization, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	3
	<u>II. DETAILED TABLES OF WOOL PRODUCTION AND UTILIZATION</u>	
2.	Wool Production, States : Average three years ended 1948-49, 1958-59 and Years 1959-60 to 1963-64	4
3.	Sheep and Lambs Shorn, Production of Shorn Wool and Average Fleece Weight, States : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	5
4.	Wool Selling Brokers' Receipts, Disposals and Stocks of New Season's Wool, Australia : 1959-60 to 1963-64	5
5.	Imports of Raw and Semi-processed Wool, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	5
6.	Exports of Raw Wool according to Principal Countries of Consignment, Australia : 1959-60 to 1963-64	6
7.	Exports of Raw and Semi-processed Wool, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	7
8.	Stocks of Raw and Semi-processed Wool, Australia : 1959 to 1964	7
9.	Consumption of Raw Wool, Australia : Average 3 years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	8
10.	Consumption of Locally Processed Wool, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	8
11.	Supplies and Utilization of Raw Wool, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	9
12.	Supplies and Utilization of Raw and Semi-processed Wool, Australia : Average three years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	9
	<u>III. WORLD PRODUCTION AND CONSUMPTION OF RAW WOOL</u>	
13.	Estimated World Production of Raw Wool, 1959-60 to 1963-64	11
14.	Estimated World Consumption of Virgin Wool, 1959 to 1963	11
	<u>IV. WOOL YIELDS AND CONVERSION FACTORS, AUSTRALIA</u>	13
	<u>APPENDIX</u>	
A.	Wool Yields and Conversion Factors, Australia	15
B.	Factors to convert Tops and Yarn to Greasy, Scoured and Clean Bases, Australia	16
	<u>GRAPHS</u>	
	Production and Exports of Raw Wool, Australia : Average 3 years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	10
	Consumption of Locally Processed Wool, Australia : Average 3 years ended 1948-49, 1958-59 and years 1959-60 to 1963-64	10
	Estimated World Production of Raw Wool, 1963-64	12

FOREWORD

This Bulletin contains statistics of wool production and utilization for 1963-64, and comparisons with earlier years. Details of clean wool yields and conversion factors used in compiling the statistics are shown in Section IV. 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 4. 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 worsted and woollen 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 Locally Processed Wool, is calculated from the usage of worsted and woollen yarn (including wool and other fibre mixtures) and scoured wool for felt (including hats) (e.g., see Table 10); 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 woollen textile industry, and should not be used as measures of consumption in terms of retail purchases. It has not been practicable to estimate wool consumption at the retail level because of lack of reliable data concerning the wool content of the multiplicity of woollen piece goods and finished articles of apparel imported and exported and held as stocks by manufacturers, wholesalers and retailers.

To correspond with the two series relating to wool consumption, wool imports and exports 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.

The statistics are shown, wherever possible, in terms of "greasy basis" (greasy equivalent weight) and "clean equivalent".

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.

I. SUMMARY

The principal statistics of Australian wool production and utilization for the years 1959-60 to 1963-64 in comparison with the averages for the three-year periods ended 1948-49 and 1958-59 are summarized 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, imports and exports of woollen piece-goods and finished articles of apparel. Imports of woollen piece-goods have varied considerably during the past five years.

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

(million lb.)

Particulars	Total Wool Production (a)	Exports of Wool (a)		Consumption of Wool	
		Raw (b)	Total (c)	Raw (d)	Locally Processed (e)
GREASY BASIS					
Average 1946-47 to 1948-49	1,012.9	1,304.1	1,321.4	126.2	96.0
1956-57 to 1958-59	1,529.7	1,409.7	1,441.2	109.6	76.1
1959-60	1,680.0	1,592.6	1,634.3	128.6	85.7
1960-61	1,625.1	1,557.7	1,588.0	108.7	76.5
1961-62	1,698.5	1,628.7	1,669.2	121.9	78.4
1962-63	1,672.5	1,594.0	1,635.7	128.1	82.2
1963-64 (f)	1,784.3	1,672.6	1,722.9	136.6	87.5
% Change (f) 1963-64 on -					
Average 1946-47 to 1948-49	76.2	28.3	30.4	8.2	-8.9
1956-57 to 1958-59	16.6	18.6	19.5	24.6	15.0
CLEAN EQUIVALENT					
Average 1946-47 to 1948-49	554.3	697.4	707.0	69.2	52.9
1956-57 to 1958-59	872.0	809.7	828.4	66.0	45.7
1959-60	952.6	911.4	936.2	77.6	51.5
1960-61	924.7	892.8	910.7	65.3	46.4
1961-62	968.2	936.8	960.8	72.7	46.5
1962-63	950.0	912.1	936.4	75.3	48.3
1963-64 (f)	1,024.2	969.0	998.2	80.2	51.4
% Change (f) 1963-64 on -					
Average 1946-47 to 1948-49	84.8	38.9	41.2	15.9	-2.8
1956-57 to 1958-59	17.5	19.7	20.5	21.5	12.5

- (a) Includes wool exported on skins. (b) Greasy, slipe, scoured and carbonized wool.
 (c) Raw wool plus woollen 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 the manufacture of felt (including hats).
 (f) Subject to revision.

II. DETAILED TABLES OF WOOL PRODUCTION AND UTILIZATION

TABLE 2. - WOOL PRODUCTION

(million lb.)

Year ended 30th June	Greasy Basis							Clean Equiva- lent: Australia
	New South Wales	Victoria	Queensland	South Australia (a)	Western Australia (a)	Tasmania	Australia (b)	
SHORN (INCLUDING CRUTCHINGS)								
Average -								
1947 to 1949	396.1	163.7	145.2	93.2	87.2	14.4	902.0	493.8
1957 to 1959	589.4	262.6	208.5	171.4	149.8	27.0	1,411.4	804.6
1960	661.6	273.9	223.5	180.3	157.8	29.1	1,529.4	867.2
1961	607.2	273.1	219.8	162.9	178.6	27.9	1,472.1	837.6
1962	646.1	281.0	214.2	192.2	180.0	30.1	1,546.3	881.4
1963	640.5	260.8	218.0	189.9	174.0	30.3	1,515.9	861.0
1964 (c)	678.0	281.3	238.4	194.8	207.3	29.6	1,631.9	936.8
DEAD AND FELLMONGERED								
Average -								
1947 to 1949	23.5	14.1	4.8	7.1	0.7	0.4	50.7	27.6
1957 to 1959	18.7	9.3	4.3	2.0	2.4	(d)	36.8	21.0
1960	21.4	8.7	5.0	0.7	3.0	0.1	38.9	22.1
1961	22.1	6.6	4.3	0.7	3.6	0.2	37.5	21.3
1962	21.5	4.8	4.8	1.7	3.3	0.1	36.2	20.6
1963	21.2	5.3	2.0	0.9	3.2	0.2	32.8	18.7
1964 (c)	18.7	4.0	1.8	(e)	2.3	(e)	28.3	16.2
ESTIMATED QUANTITY EXPORTED ON SKINS								
Average -								
1947 to 1949	19.7	22.4	1.7	7.8	7.1	1.5	60.2	32.9
1957 to 1959	25.8	26.4	4.2	13.7	8.2	3.2	81.5	46.4
1960	32.4	40.4	7.7	17.3	9.6	4.4	111.7	63.3
1961	35.0	42.3	11.5	13.8	9.2	3.8	115.5	65.8
1962	33.6	44.9	11.3	13.1	8.9	4.3	116.0	66.2
1963	32.0	50.6	13.6	16.5	6.9	4.1	123.8	70.3
1964 (c)	34.6	48.6	15.2	(e)	7.0	(e)	124.1	71.2
ESTIMATED TOTAL PRODUCTION								
Average -								
1947 to 1949	439.3	200.2	151.7	108.1	95.0	16.3	1,012.9	554.3
1957 to 1959	633.9	298.3	217.0	187.1	160.4	30.2	1,529.7	872.0
1960	715.4	323.0	236.2	198.3	170.4	33.6	1,680.0	952.6
1961	664.3	322.0	235.6	177.4	191.4	31.9	1,625.1	924.7
1962	701.2	330.7	230.3	207.0	192.2	34.5	1,698.5	968.2
1963	693.7	316.7	233.6	207.3	184.1	34.6	1,672.5	950.0
1964 (c)	731.3	333.9	255.4	210.5	216.6	34.0	1,701.3	1,024.2

(a) Years ended 31st March for shorn wool except for three years ended 1949.

(b) Includes Northern Territory and Australian Capital Territory. (c) Subject to revision. (d) Less than 50,000 lb. (e) Not available for publication.

TABLE 3. - SHEEP AND LAMBS SHORN, PRODUCTION OF SHORN WOOL AND AVERAGE FLEECE WEIGHT

Year ended 30th June	N.S.W.	Vic.	Qld.	S.A.(a)	W.A.(a)	Tas.	Australia (b)		
	Sheep and Lambs						Sheep	Lambs	Sheep & Lambs
NUMBER SHORN ('000)									
Average -									
1947 to 1949	47,089	20,233	17,265	9,187	10,984	2,096	87,851	19,237	107,088
1957 to 1959	69,586	30,872	23,479	16,441	16,564	3,381	133,471	27,144	160,615
1960	73,788	32,216	24,248	17,110	17,964	3,834	139,210	30,275	169,485
1961	70,931	30,821	24,003	15,382	18,424	3,678	136,781	26,769	163,550
1962	72,248	32,511	23,686	17,677	19,516	3,830	138,885	30,890	169,775
1963	72,345	31,611	24,437	17,859	20,077	3,783	140,546	29,860	170,406
1964(c)	74,924	32,845	25,264	17,636	21,212	3,868	144,203	31,850	176,053
SHORN WOOL (INCLUDING CRUTCHINGS) PRODUCED (MILL. LB. GREASY BASIS)									
Average -									
1947 to 1949	396.1	163.7	145.2	93.2	87.2	14.4	842.9	58.4	902.0
1957 to 1959	589.4	262.6	208.5	171.4	149.8	27.0	1,326.9	84.4	1,411.4
1960	661.6	273.9	223.5	180.3	157.8	29.1	1,435.5	93.9	1,529.4
1961	607.2	273.1	219.8	162.9	178.6	27.9	1,384.6	87.5	1,472.1
1962	646.1	281.0	214.2	192.2	180.0	30.1	1,445.8	100.5	1,546.3
1963	640.5	260.8	218.0	189.9	174.0	30.3	1,420.4	95.5	1,515.9
1964 (c)	678.0	281.3	238.4	194.8	207.3	29.6	1,527.9	104.0	1,631.2
AVERAGE FLEECE WEIGHT (LB. GREASY BASIS)									
Average -									
1947 to 1949	8.41	8.10	8.42	10.12	7.94	6.85	9.60	3.02	8.42
1957 to 1959	8.46	8.53	8.88	10.44	9.05	7.97	9.95	3.10	8.79
1960	8.97	8.50	9.22	10.53	8.79	7.59	10.31	3.10	9.02
1961	8.56	8.86	9.16	10.59	9.69	7.58	10.12	3.27	9.00
1962	8.94	8.64	9.05	10.87	9.22	7.84	10.41	3.25	9.11
1963	8.85	8.25	8.92	10.63	8.67	8.01	10.11	3.20	8.90
1964 (c)	9.05	8.57	9.44	11.04	9.77	7.65	10.60	3.26	9.27

(a) Years ended 31st March for shorn wool except for three years ended 1949. (b) Includes Northern Territory and Australian Capital Territory. For years prior to 1957-58, however, only shorn wool from sheep and lambs in total is included for the Northern Territory (other details are not available). (c) Subject to revision.

TABLE 4. - 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 30th June	Receipts		Disposed of by -		Awaiting Disposal at end of Year
	First Hand	For Re-sale(b)	Sale	Shipment (c)	
1950	4,925.6	96.3	4,819.9	24.1	177.9
1961	4,715.3	77.1	4,580.3	10.4	201.7
1962	4,798.4	71.9	4,675.3	8.1	186.9
1963	4,692.8	67.2	4,592.1	5.4	162.5
1964	4,996.0	81.0	4,862.0	4.2	210.8

(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 5. - IMPORTS OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA (million lb.)

Year ended 30th June	Greasy Basis			Clean Equivalent		
	Raw (a)	Semi-processed (b)	Total Wool	Raw (a)	Semi-processed (b)	Total Wool
Average 1947 to 1949	7.9	0.3	8.2	5.2	0.2	5.4
" 1957 to 1959	8.9	0.2	9.1	5.1	0.1	5.2
1960	11.8	0.8	12.6	6.3	0.5	6.8
1961	12.2	1.6	13.8	6.8	0.9	7.7
1962	8.2	2.0	10.2	4.2	1.2	5.4
1963	15.4	2.0	17.4	8.2	1.2	9.4
1964	14.5	1.3	15.8	7.4	0.8	8.2

(a) Greasy, slips, scoured and carbonized wool. (b) Woollen tops and millings, and worsted yarn.

TABLE 6. - EXPORTS OF RAW WOOL ACCORDING TO PRINCIPAL COUNTRIES OF CONSIGNMENT: AUSTRALIA

(million lb. actual weight)

Country of Consignment	1959-60	1960-61	1961-62	1962-63	1963-64
GREASY AND SLIPE					
Japan	335.3	411.8	417.0	386.9	433.9
United Kingdom	266.3	217.3	207.7	204.4	229.3
France	161.8	155.4	139.0	131.8	138.8
Italy	130.5	105.8	146.4	119.4	127.6
Belgium-Luxembourg	106.0	105.0	108.7	98.6	101.7
Germany, Federal Republic of	70.2	60.8	66.8	74.5	86.4
U.S.S.R.	39.3	30.3	38.8	49.4	45.6
China (Mainland)	15.8	12.8	20.1	26.9	32.2
United States of America	24.3	17.2	34.8	46.3	27.6
Czechoslovakia	30.0	25.5	17.1	16.2	24.2
Poland	37.4	30.4	33.7	21.7	22.6
Mexico	10.3	14.9	15.2	15.1	19.1
Yugoslavia	10.5	13.5	9.2	15.2	16.8
Turkey	6.7	11.2	14.7	21.5	15.8
India	1.1	2.6	9.1	6.6	12.9
Spain	0.1	1.8	7.4	4.4	7.4
Austria	3.9	4.9	5.0	5.1	5.1
South Africa	4.0	0.2	4.6	4.2	4.6
Hungary	0.1	1.4	0.8	2.1	4.5
Portugal	2.6	4.0	3.2	2.1	3.3
Ireland, Republic of	3.8	..	..	2.7	3.2
Korea, Republic of	0.1	0.2	1.7	4.7	3.0
Switzerland	5.9	5.7	3.8	1.2	2.1
Germany (East)	5.6	1.2	1.2	0.9	1.4
Israel	..	..	..	0.5	1.3
Netherlands	1.4	1.5	1.5	1.3	1.2
Canada	1.3	0.8	1.2	1.6	1.0
Other	20.1	22.9	19.5	13.7	10.2
TOTAL:	1,294.4	1,259.1	1,328.2	1,279.0	1,382.8
SCOURED AND CARBONIZED					
United States of America	14.5	19.3	20.6	25.5	23.1
United Kingdom	24.7	20.2	15.4	17.5	17.6
Italy	8.7	7.7	9.6	8.6	8.3
Germany, Federal Republic of	9.4	8.5	8.3	7.3	7.5
Japan	4.3	6.1	7.1	5.8	4.9
Canada	5.4	5.3	5.4	3.0	3.4
France	3.8	4.7	5.1	4.3	3.2
China (Mainland)	10.2	4.5	7.8	4.6	3.2
Iran	0.8	1.8	2.2	3.2	2.4
China, Republic of (Formosa)	0.5	0.5	0.8	1.0	2.0
Hong Kong	..	..	..	0.5	1.4
Belgium-Luxembourg	1.9	1.5	1.6	1.5	1.4
India	1.5	1.1	2.2	4.3	1.3
Other	14.8	16.2	13.1	14.8	8.6
TOTAL:	100.5	97.4	99.2	101.9	88.3
TOPS					
Hong Kong	1.9	2.4	5.3	7.6	9.0
China (Mainland)	7.6	2.4	5.3	0.7	3.9
Canada	..	..	0.8	1.1	2.6
India	4.0	5.2	4.0	5.0	2.4
China, Republic of (Formosa)	1.3	1.2	1.3	1.3	1.8
Pakistan	0.7	0.7	0.9	1.0	1.5
United States of America	0.1	0.1	0.1	2.5	1.4
New Zealand	1.0	0.9	1.1	1.0	1.4
Greece	..	0.4	0.4	0.7	0.9
Japan	1.0	0.7	0.6	0.1	0.5
Other	5.1	2.7	1.6	0.6	0.5
TOTAL:	22.7	16.7	21.4	21.6	25.9

TABLE 7. - EXPORTS OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Raw				Semi-Processed		Total Wool
	Greasy and Slips	Scoured & Carbonized	Wool Exported on Skins	Total Raw Wool	Tops (Woollen)	Yarn (Woollen & Worsted)	
GREASY BASIS							
Average -							
1947 to 1949	925.2	318.7	60.2	1,304.1	13.6	3.7	1,321.4
1957 to 1959	1,159.9	168.3	81.5	1,409.7	31.4	0.1	1,441.2
1960	1,294.7	186.2	111.7	1,592.6	41.6	0.1	1,634.3
1961	1,259.5	182.7	115.5	1,557.7	30.0	0.3	1,588.0
1962	1,328.4	184.3	116.0	1,628.7	40.1	0.4	1,669.2
1963	1,279.3	190.9	123.8	1,594.0	41.3	0.4	1,635.7
1964(a)	1,383.2	165.3	124.1	1,672.6	49.6	0.7	1,722.9
CLEAN EQUIVALENT							
Average -							
1947 to 1949	520.6	143.9	32.9	697.4	7.5	2.1	707.0
1957 to 1959	678.7	84.6	46.4	809.7	18.6	0.1	828.4
1960	753.4	94.7	63.3	911.4	24.7	0.1	936.2
1961	735.5	91.5	65.8	892.8	17.7	0.2	910.7
1962	777.1	93.5	66.2	936.8	23.8	0.2	960.8
1963	745.8	96.0	70.3	912.1	24.0	0.3	936.4
1964(a)	814.7	83.1	71.2	969.0	28.8	0.4	998.2

(a) Subject to revision.

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

(million lb.)

At 30th June -	Raw Wool					Semi-processed Wool held by Woollen Mills		Total Wool
	Held by Woollen Mills, Woolscourers and Fellmongers		Held by Brokers (b)		Total Raw Wool	Woollen Tops	Woollen & Worsted Yarn	
	Greasy & Slips	Scoured & Carbonized	Sold	Unsold				
GREASY BASIS								
1959	51.5	21.5	162.6	33.9	269.5	10.8	13.1	293.4
1960	42.2	23.1	125.5	54.1	244.9	12.2	13.7	270.8
1961	38.2	23.6	125.2	62.8	249.8	11.3	12.9	274.0
1962	36.9	21.1	116.4	58.3	232.7	11.0	12.1	255.8
1963	37.3	20.8	120.1	52.4	230.6	10.9	13.8	255.3
1964(c)	37.6	23.6	129.8	66.1	257.1	11.8	12.5	281.4
CLEAN EQUIVALENT								
1959	29.2	10.2	92.0	19.2	150.6	6.4	7.5	164.5
1960	24.0	11.0	71.2	30.7	136.9	7.2	7.8	151.9
1961	21.7	11.2	71.2	35.8	139.9	6.6	7.4	153.9
1962	21.1	10.0	66.3	33.2	130.6	6.6	6.9	144.1
1963	21.2	9.9	68.2	29.8	129.1	6.3	7.9	143.3
1964(c)	21.6	11.2	74.5	38.0	145.3	6.9	7.1	159.3

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

TABLE 9. - CONSUMPTION OF RAW WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Greasy Basis			Clean Equivalent		
	Used on Woollen and Worsted Systems	Used for Felt Manufacture (including hats)	Total	Used on Woollen and Worsted Systems	Used for Felt Manufacture (including hats)	Total
Average -						
1947 to 1949	113.9	12.3	126.2	63.4	5.8	69.2
1957 to 1959	105.1	4.5	109.6	63.9	2.1	66.0
1960	123.5	5.1	128.6	75.2	2.4	77.6
1961	104.8	3.9	108.7	63.4	1.9	65.3
1962	117.6	4.3	121.9	70.7	2.0	72.7
1963	125.8	2.3	128.1	74.2	1.1	75.3
1964(a)	133.2	3.4	136.6	78.6	1.6	80.2

(a) Subject to revision

TABLE 10. - CONSUMPTION OF LOCALLY PROCESSED WOOL : AUSTRALIA

(million lb.)

Year ended 30th 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

Average -						
1947 to 1949	(b)(c) 44.0	(d)	(c) 39.7	(d)	12.3	96.0
1957 to 1959	37.3	3.7	27.6	3.0	4.5	76.1
1960	38.0	6.3	33.0	3.3	5.1	85.7
1961	35.7	4.6	29.2	3.1	3.9	76.5
1962	38.5	6.7	26.6	2.3	4.3	78.4
1963	39.4	8.0	29.0	3.5	2.3	82.2
1964 (e)	38.7	8.6	29.7	7.1	3.4	87.5

CLEAN EQUIVALENT

Average -						
1947 to 1949	(b)(c) 24.1	(d)	(c) 23.0	(d)	5.8	52.9
1957 to 1959	22.2	2.3	17.3	1.8	2.1	45.7
1960	22.6	3.8	20.7	2.0	2.4	51.5
1961	21.2	3.3	18.1	1.9	1.9	46.4
1962	22.6	4.0	16.5	1.4	2.0	46.5
1963	22.7	4.6	17.7	2.2	1.1	48.3
1964 (e)	22.3	5.0	18.1	4.4	1.6	51.4

(a) Wool content of yarns containing a mixture of wool and other fibres. (b) Excludes hand knitting yarns. (c) Includes mixed yarns. (d) Not available separately.
 (e) Subject to revision

TABLE 11. - SUPPLIES AND UTILIZATION OF RAW WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Net Change in Stocks (a)		Production (c)	Imports (a)	Total Supplies	Exports (a) (c)	Consumption of Raw Wool (d)
	Recorded	Estimated Total Stocks (b)					
GREASY BASIS							
Average -							
1947 to 1949	(-) 351.5	(-) 409.5	1,012.9	7.9	1,430.3	1,304.1	126.2
1957 to 1959	(+) 21.9	(+) 19.3	1,529.7	8.9	1,519.3	1,409.7	109.6
1960	(-) 24.6	(-) 29.4	1,680.0	11.8	1,721.2	1,592.6	128.6
1961	(+) 4.9	(-) 29.1	1,625.1	12.2	1,666.4	1,557.7	108.7
1962	(-) 17.1	(-) 43.9	1,698.5	8.2	1,750.6	1,628.7	121.9
1963	(-) 2.1	(-) 34.2	1,672.5	15.4	1,722.1	1,594.0	128.1
1964 (e)	(+) 26.5	(-) 10.4	1,784.3	14.5	1,809.2	1,672.6	136.6

CLEAN EQUIVALENT

Average -							
1947 to 1949	(f)	(-) 207.1	554.3	5.2	766.6	697.4	69.2
1957 to 1959	(+) 11.7	(+) 1.4	872.0	5.1	875.7	809.7	66.0
1960	(-) 13.7	(-) 30.1	952.6	6.3	989.0	911.4	77.6
1961	(+) 3.0	(-) 26.6	924.7	6.8	958.1	892.8	65.3
1962	(-) 9.3	(-) 37.1	968.2	4.2	1,009.5	936.8	72.7
1963	(-) 1.5	(-) 29.2	950.0	8.2	987.4	912.1	75.3
1964 (e)	(+) 16.2	(-) 17.6	1,024.2	7.4	1,049.2	969.0	80.2

(a) Greasy, slip, scoured and carbonized 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). (e) Subject to revision. (f) Not available.

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

(million lb.)

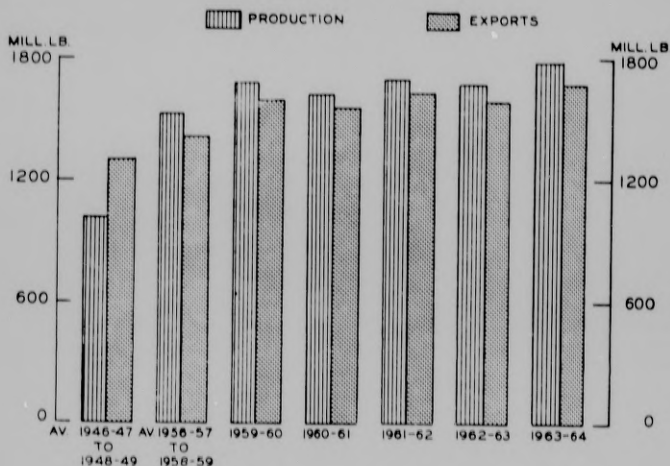
Year ended 30th June -	Net Change in Stocks (a)		Production (c)	Imports (a)	Total Supplies	Exports (a) (c)	Consumption of Locally Processed Wool (d)
	Recorded Stocks	Estimated Total Stocks (b)					
GREASY BASIS							
Average -							
1947 to 1949	(-) 350.1	(-) 396.3	1,012.9	8.2	1,417.4	1,321.4	96.0
1957 to 1959	(+) 23.0	(+) 21.5	1,529.7	9.1	1,517.3	1,441.2	76.1
1960	(-) 22.6	(-) 27.4	1,680.0	12.6	1,720.0	1,634.3	85.7
1961	(+) 3.2	(-) 25.6	1,625.1	13.8	1,664.5	1,588.0	76.5
1962	(-) 18.2	(-) 38.9	1,698.5	10.2	1,747.6	1,669.2	78.4
1963	(-) 0.5	(-) 28.0	1,672.5	17.4	1,717.9	1,635.7	82.2
1964 (e)	(+) 26.1	(-) 10.3	1,784.3	15.8	1,810.4	1,722.9	87.5

CLEAN EQUIVALENT

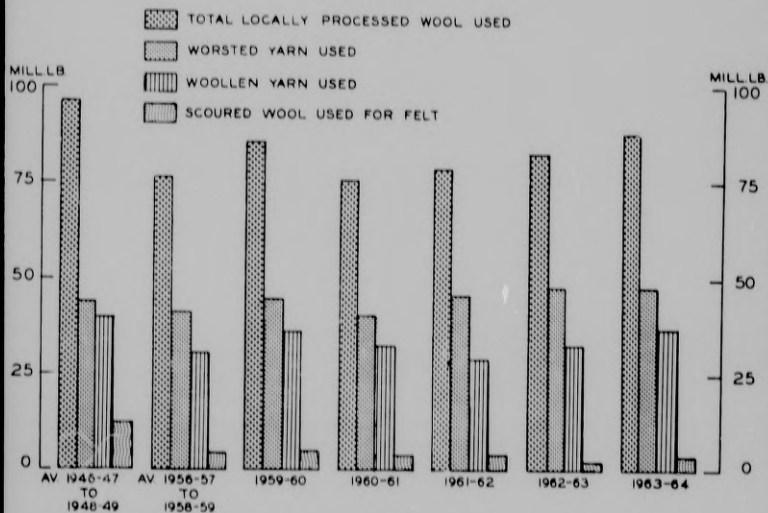
Average -							
1947 to 1949	(f)	(-) 200.2	554.3	5.4	759.9	707.0	52.9
1957 to 1959	(+) 12.4	(+) 3.1	872.0	5.2	874.1	828.4	45.7
1960	(-) 12.6	(-) 28.3	952.6	6.8	987.7	936.2	51.5
1961	(+) 2.0	(-) 24.7	924.7	7.7	957.1	910.7	46.4
1962	(-) 9.8	(-) 33.7	968.2	5.4	1,007.3	960.8	46.5
1963	(-) 0.8	(-) 25.3	950.0	9.4	984.7	936.4	48.3
1964 (e)	(+) 16.0	(-) 17.2	1,024.2	8.2	1,049.6	998.2	51.4

(a) Greasy, slip, scoured and carbonized wool, woollen 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). (e) Subject to revision. (f) Not available.

PRODUCTION AND EXPORTS OF RAW WOOL (GREASY BASIS) AUSTRALIA



CONSUMPTION OF LOCALLY PROCESSED WOOL (GREASY BASIS) AUSTRALIA



III. WORLD PRODUCTION AND CONSUMPTION OF RAW WOOL

TABLE 13. - ESTIMATED WORLD PRODUCTION OF RAW WOOL

(Greasy Basis)

(Source : Commonwealth Economic Committee)

Country	1959-60	1960-61	1961-62	1962-63	1963-64 (a)	
					Production	Proportion of Total
	mill.lb.	mill.lb.	mill.lb.	mill.lb.	mill.lb.	%
Australia	1,680	1,625	1,699	1,673	1,784	30.9
U.S.S.R.	776	777	798	809	819	14.2
New Zealand	577	586	587	620	617	10.7
Argentina	423	431	413	408	395	6.8
South Africa	319	317	337	322	323	5.6
United States of America	319	323	320	300	287	5.0
Uruguay	159	181	185	190	192	3.3
United Kingdom	124	121	131	131	127	2.2
Other	1,247	1,240	1,243	1,241	1,235	21.3
<u>TOTAL</u>	5,624	5,603	5,713	5,694	5,779	100.0
Clean Equivalent	3,222	3,231	3,279	3,287	3,338	

(a) Provisional

TABLE 14. - ESTIMATED WORLD CONSUMPTION OF VIRGIN WOOL

(Clean Equivalent)

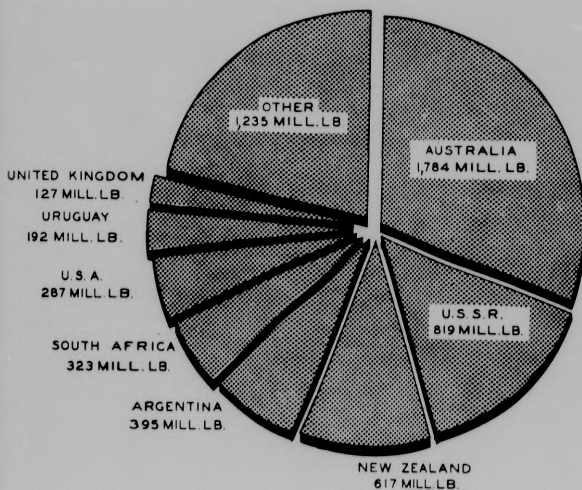
(Source : Commonwealth Economic Committee)

Country	1959	1960	1961	1962	1963 (a)	
					Consumption	Proportion of Total
	mill.lb.	mill.lb.	mill.lb.	mill.lb.	mill.lb.	%
United Kingdom	509	481	472	448	458	13.7
United States of America	400	378	379	394	379	11.4
Japan	239	281	325	297	302	9.1
France	284	301	301	291	295	8.8
Italy	166	198	187	205	196	5.9
Germany, Federal Republic of	150	151	150	147	151	4.5
Belgium	80	86	82	100	95	2.8
Australia	73	74	65	73	81	2.4
Turkey	53	57	57	57	57	1.7
U.S.S.R., China (Mainland) and Eastern Europe	714	800	764	791	800	24.0
Other	504	489	514	505	521	15.7
<u>TOTAL</u>	3,172	3,296	3,316	3,308	3,335	100.0

(a) Provisional

ESTIMATED WORLD PRODUCTION OF RAW WOOL (GREASY BASIS) 1963-64

(SOURCE: COMMONWEALTH ECONOMIC COMMITTEE)



TOTAL WORLD PRODUCTION - 5,779 MILLION LB.

IV. WOOL YIELDS AND CONVERSION FACTORS, AUSTRALIA

- (i) General: 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 utilization of wool and for similar purposes. The factors have been adopted for uniform use in compiling Australian statistics, after consultation with the Commonwealth 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.

(ii) Definitions:

Scoured Weight: The weight of scoured wool, including moisture regain and such vegetable matter as remains in the wool after scouring (but before carbonizing in the case of carbonizing wools).

Clean Weight: The weight of scoured or carbonized wool in a completely clean state (i.e. with all vegetable matter removed), including standard moisture regain.

Carbonized Weight: The weight of carbonized wool after carbonizing 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.

Carbonized Yield from Scoured: Carbonized weight as a percentage of scoured weight.

Standard Moisture Regain: Bradford standard regains are adopted (16 per cent. for carding and carbonizing wools; 19 per cent. on tops for combing wools).

(iii) Yields and Conversion Factors:

(A) Production

(a) Shorn Wools: 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 Appendix A.

(b) 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

- (a) 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.).
- (b) Scoured and Carbonized Wool: See C (b) in connexion with factors adopted concerning clean yield from scoured and carbonized. The same standard factors have been used as for exports of these classes of wool from Australia.
- (c) Tops and Yarn: Standard factors (subject to periodical review) of 2.0 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

- (a) Greasy Wool: The clean yield of wool exported as greasy has been 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 Appendix A.

- (b) Scoured and Carbonized Wool: A standard factor of 93 per cent. clean yield from scoured for Australian scoured wool (excluding carbonizing wools) has been adopted. This allows for vegetable content and variation from standard moisture regains under Australian conditions in recorded weights of scoured wool. For carbonized wool it has been assumed for practical purposes that carbonized weight represents clean weight.

From 1945-46 to 1951-52 standard factors of 2.0 lb. greasy = 1 lb. scoured (50 per cent. scoured yield) and 2.5 lb. greasy = 1 lb. carbonized (40 per cent. carbonized or clean yield) were adopted for scoured and carbonized wools respectively, exported from Australia. These factors allow for the low-yielding wools exported. From 1952-53 factors have been calculated each year using statistical data obtained from Australian scourers, and taking into account yield factors used for scoured and carbonized wool consumed in Australia. Factors calculated on this basis are shown in Appendix A.

- (c) Wool Exported on Skins: See A (b)

- (d) Slip Wool: Relatively small quantities of slip wool are exported and standard factors of 1.25 lb. greasy or 0.70 lb. clean = 1 lb. slip have been adopted.

- (e) Tops: The factors used to convert to greasy and clean bases have been derived from statistics of operations of Australian woollen mills and are shown in Appendix B.

- (f) Yarn: In view of the comparatively small quantities involved, standard factors for worsted and woollen yarn combined have been adopted on the basis of data as to the operations of woollen mills for recent years. These are 1.75 lb. greasy or 1.00 lb. clean = 1 lb. yarn. They will be reviewed periodically.

(D) Stocks

(i) Factory Stocks

- (a) Greasy and Slip: 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 slip included.
- (b) Scoured and Carbonized: Standard factors (subjected to periodical review) of 95 per cent. clean yield from scoured and carbonized and 2.0 lb. greasy = 1 lb. scoured and carbonized (scoured and carbonized yield of 50 per cent.) have been used.
- (c) Tops: See C (e)
- (d) Yarn: See C (f)
- (ii) Brokers' Stocks: Information on stocks of sold wool has been included as from 30th June, 1957. Prior to that date information was available only on stocks of unsold wool held in brokers' stores. For practical purposes, it has been assumed that wool in brokers' stores is all greasy wool. The assessed clean yield for the whole clip has been assumed to apply to these wools.

(E) Consumption

- (a) Scoured and Carbonized Wool used on Woollen and Worsted Systems: A standard factor of 95 per cent. clean yield from scoured and carbonized has been adopted. The factors used to convert recorded usage of scoured and carbonized wool to greasy equivalent are derived from statistics of scouring operations by woollen mills on own account and are shown in Appendix A.
- (b) Scoured and Carbonized Wool used for Felting: A standard factor of 95 per cent. clean yield from scoured and carbonized has been adopted. A standard factor of 2.0 lb. greasy = 1 lb. scoured and carbonized has been used having regard to advice obtained from felt manufacturers as to type, condition, etc., of wools used.
- (c) Worsted and Woollen 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 Appendix B). From 1953-54 information has been available separately on yarns containing a mixture of wool and other fibres and these have been taken into account separately from pure yarns in calculating greasy and clean equivalent of locally processed wools used in Australia. From 1956-57, however, information on mixed yarns containing wool is 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 woollen 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.

APPENDIXTABLE A. - 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> %
1946-47	53.4	1959-60	56.7
1947-48	55.3	1960-61	56.9
1948-49	55.4	1961-62	57.0
		1962-63	56.8
1956-57	57.7	1963-64	57.4
1957-58	56.7		
1958-59	56.6		

(ii) Estimated Average Clean Yields of Exports of Wool as Greasy, Australia

<u>Year</u>	<u>Clean Yield</u> %	<u>Year</u>	<u>Clean Yield</u> %
1946-47	55.0	1959-60	58.2
1947-48	57.0	1960-61	58.4
1948-49	57.0	1961-62	58.5
		1962-63	58.3
1956-57	59.2	1963-64	58.9
1957-58	58.2		
1958-59	58.1		

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

(iii) Scoured and Carbonized Yield of Wool Scoured on Own Account by Australian Wool Textile Mills

<u>Year</u>	<u>Scoured and Carbonized Yield</u> %	<u>Year</u>	<u>Scoured and Carbonized Yield</u> %
1946-47	59.2	1959-60	63.9
1947-48	58.2	1960-61	63.7
1948-49	59.2	1961-62	63.3
		1962-63	62.2
1956-57	63.9	1963-64	(a) 62.2
1957-58	64.2		
1958-59	64.2		

(a) Assumed yield used for preliminary calculations.

(iv) Scoured and Carbonized Yield of Wool Exported as Scoured and Carbonized, Australia

<u>Year</u>	<u>Scoured and Carbonized Yield</u> %	<u>Year</u>	<u>Scoured and Carbonized Yield</u> %
1946-47	46.7	1959-60	54.0
1947-48	48.4	1960-61	53.3
1948-49	47.1	1961-62	53.9
		1962-63	53.4
1956-57	52.8	1963-64	(a) 53.4
1957-58	53.8		
1958-59	53.6		

(a) Assumed yield used for preliminary calculations.

TABLE B. - 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 30th June	Tops	Worsted Yarn	Woollen Yarn
LB. GREASY PER LB. OF PRODUCT			
1947	1.87	2.09	1.63
1948	1.95	2.16	1.70
1949	1.96	2.21	1.64
		Pure Mixed (a)	Pure Mixed (a)
1957	1.81	2.00 1.59	1.43 0.88
1958	1.81	1.97 1.57	1.42 0.87
1959	1.80	2.03 1.57	1.47 0.79
1960	1.83	2.00 1.62	1.50 0.70
1961	1.80	1.89 1.37	1.40 0.65
1962	1.87	2.01 1.49	1.47 0.60
1963	1.91	1.99 1.80	1.41 0.90
1964 (b)	1.91	1.99 1.80	1.41 0.90
LB. SCoured OR CARBONIZED PER LB. OF PRODUCT			
1947	1.11	1.24	0.97
1948	1.14	1.26	0.99
1949	1.16	1.31	0.97
		Pure Mixed (a)	Pure Mixed (a)
1957	1.15	1.27 1.02	0.91 0.56
1958	1.16	1.26 1.01	0.91 0.56
1959	1.15	1.31 1.01	0.95 0.51
1960	1.17	1.28 1.04	0.96 0.44
1961	1.14	1.20 0.88	0.89 0.41
1962	1.19	1.27 0.95	0.93 0.38
1963	1.19	1.24 1.12	0.88 0.56
1964 (b)	1.19	1.24 1.12	0.88 0.56
LB. CLEAN PER LB. OF PRODUCT			
	(c)	(c)	(d)
1947	1.03	1.15	0.95
1948	1.06	1.17	0.97
1949	1.08	1.22	0.95
		Pure Mixed (a)	Pure Mixed (a)
1957	1.07	1.18 0.95	0.89 0.55
1958	1.08	1.17 0.93	0.89 0.55
1959	1.07	1.22 0.93	0.93 0.50
1960	1.09	1.19 0.97	0.94 0.43
1961	1.06	1.12 0.81	0.87 0.40
1962	1.11	1.18 0.88	0.91 0.37
1963	1.11	1.15 1.04	0.86 0.55
1964 (b)	1.11	1.15 1.04	0.86 0.55

(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) Assumed factors for preliminary calculations. (c) Standard Clean Yield from Scoured of 93 per. cent. (d) Standard Clean Yield from Scoured or Carbonized Wool of 98 per. cent.

J.P. O'NEILL
ACTING COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T.

4TH DAY, 1965.

NOTE: Inquiries concerning these statistics may be made in Canberra by telephoning 41971 Extension 48 or, in each State Capital, by telephoning the office of the Bureau of Census and Statistics.