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STATISTICAL BULLETIN:

**WOOL PRODUCTION
AND
UTILIZATION**



No. 14 1965-66

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA
AUSTRALIA

STATISTICAL BULLETIN : WOOL PRODUCTION AND UTILISATION, AUSTRALIA

NO. 14 : 1965-66

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FOREWORD

This Bulletin contains statistics of wool production and utilisation for 1965-66, 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 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 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 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, 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, (i) General.

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

SYMBOLS USED IN THIS BULLETIN

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

I. SUMMARY

The principal statistics of Australian wool production and utilisation for the years 1961-62 to 1965-66 in comparison with the averages for the three-year periods ended 1948-49 and 1958-59 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)

Year ended 30 June	Total Wool Production (a)	Exports of Wool (a)		Consumption of Wool	
		Raw (b)	Total (c)	Raw (d)	Processed (e)
GREASY BASIS					
Average -					
1947 to 1949	1,012.9	1,304.1	1,321.4	126.2	96.0
1957 to 1959	1,529.7	1,409.7	1,441.2	109.6	76.1
1962	1,698.6	1,628.7	1,669.2	121.9	78.8
1963	1,672.5	1,594.3	1,634.1	124.1	81.7
1964	1,784.7	1,669.6	1,716.8	128.2	80.4
1965	1,784.0	1,625.4	1,658.5	119.0	83.0
1966p	1,662.3	1,622.9	1,662.4	117.2	78.3
% Change, 1966 on average -					
1947 to 1949	64.1	24.4	25.8	-7.1	-18.4
1957 to 1959	8.7	15.1	15.3	6.9	2.9
CLEAN EQUIVALENT					
Average -					
1947 to 1949	554.3	697.4	707.0	69.2	52.9
1957 to 1959	872.0	809.7	828.4	66.0	45.7
1962	968.2	936.8	960.8	72.7	46.7
1963	950.2	912.1	935.5	74.1	48.7
1964	1,024.4	969.0	996.4	76.1	47.5
1965	1,015.1	935.8	955.6	72.5	50.5
1966p	937.5	926.8	950.5	71.6	47.8
% Change, 1966 on average -					
1947 to 1949	69.1	32.9	34.4	3.5	-9.6
1957 to 1959	7.5	14.5	14.7	8.5	4.6

(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 the manufacture of felt (including hats).

II. DETAILED TABLES OF WOOL PRODUCTION AND UTILISATION

TABLE 2. - WOOL PRODUCTION

(million lb)

Year ended 30 June	Greasy Basis							Clean Equiv- alent: Austra- lia
	New South Wales	Victoria	Queens- land	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
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	861.2
1964	678.0	281.3	238.4	194.8	207.3	29.6	1,631.9	936.7
1965	654.6	306.3	232.2	200.1	198.2	35.6	1,629.4	927.1
1966p	533.5	307.3	173.5	215.4	234.9	36.9	1,503.5	848.0
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	..	36.8	21.0
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	18.7	4.4	1.8	(c)	2.3	(c)	28.7	16.5
1965	16.8	4.8	1.9	(c)	2.8	(c)	26.9	15.3
1966p	14.7	3.6	1.8	(c)	3.5	(c)	24.0	13.5
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
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	34.6	48.6	15.2	(c)	7.0	(c)	124.1	71.2
1965	34.7	50.5	17.3	(c)	6.0	(c)	127.8	72.7
1966p	31.3	55.6	17.4	(c)	9.0	(c)	134.8	76.0
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
1962	701.2	330.7	230.3	207.0	192.2	34.5	1,698.6	968.2
1963	693.7	316.7	233.6	207.3	184.1	34.6	1,672.5	950.2
1964	731.3	334.3	255.4	210.5	216.6	34.0	1,784.7	1,024.4
1965	706.1	361.5	251.4	215.7	207.0	39.7	1,784.0	1,015.1
1966p	579.5	366.6	192.8	232.3	247.3	41.9	1,662.3	937.5

(a) Years ended 31 March for shorn wool except for three years ended 1949 and year 1965-66. (b) Includes Northern Territory and Australian Capital Territory. (c) Not available for publication.

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

Year ended 30 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
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	74,924	32,845	25,264	17,636	21,212	3,868	144,203	31,850	176,053
1965	74,570	35,340	26,223	18,743	23,179	3,978	150,392	31,954	182,346
1966p	67,458	37,670	20,692	19,998	25,635	4,318	147,046	29,006	176,052

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	843.4	58.6	902.0
1957 to 1959	589.4	262.6	208.5	171.4	149.8	27.0	1,326.9	84.5	1,411.4
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	678.0	281.3	238.4	194.8	207.3	29.6	1,527.9	104.0	1,631.9
1965	654.6	306.3	232.2	200.1	198.2	35.6	1,526.0	103.4	1,629.4
1966p	533.5	307.3	173.5	215.4	234.9	36.9	1,415.6	87.8	1,503.5

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
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	9.05	8.57	9.44	11.04	9.77	7.65	10.60	3.26	9.27
1965	8.78	8.67	8.85	10.67	8.55	8.95	10.15	3.24	8.94
1966p	7.91	8.16	8.39	10.77	9.16	8.56	9.63	3.03	8.54

(a) Years ended 31 March except for three years ended 1949 and year 1965-66.

(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).

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 30 June	Receivals		Disposed of by		Awaiting Disposal at end of Year
	First Hand	For Re-sale(b)	Sale	Shipment (c)	
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
1965	5,089.7	66.5	4,877.0	6.1	273.1
1966	4,509.7	80.5	4,389.6	4.8	195.8

(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 30 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
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
1965	15.7	1.5	17.2	7.8	0.9	8.7
1966	14.4	1.6	16.0	7.7	0.9	8.6

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

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

AUSTRALIA

Country of Consignment	1961-62	1962-63	1963-64	1964-65	1965-66p	
	Million lb actual weight				%	
GREASY AND SLIPE						
Japan	417.0	386.9	433.9	424.2	467.6	35.3
Italy	146.4	119.4	127.6	95.2	137.4	10.4
United Kingdom	207.7	204.4	229.3	193.0	133.7	10.1
France	139.0	131.8	138.8	122.3	130.9	9.9
Germany, Federal Republic of	66.8	74.5	86.4	85.9	91.0	6.9
Belgium-Luxembourg	108.7	98.6	101.7	106.4	88.8	6.7
United States of America	34.8	46.3	27.6	67.1	72.7	5.5
U.S.S.R.	38.8	49.4	45.6	50.7	29.5	2.2
Poland	33.7	21.7	22.6	23.0	28.4	2.2
Mexico	15.2	15.1	19.1	28.1	21.8	1.6
Turkey	14.7	21.5	15.8	15.7	18.9	1.4
Yugoslavia	9.2	15.2	16.8	14.2	17.1	1.3
Czechoslovakia	17.1	16.2	24.2	20.0	15.0	1.1
Netherlands	1.5	1.3	1.2	6.9	13.1	1.0
China, Republic of (Formosa)	0.1	0.1	..	1.3	10.3	0.8
India	9.1	6.6	12.9	18.9	9.2	0.7
Spain	7.4	4.4	7.4	8.6	7.7	0.6
China (Mainland)	20.1	26.9	32.3	18.7	4.5	0.3
Korea, Republic of	1.7	4.7	3.0	2.9	4.4	0.3
Switzerland	3.8	1.2	2.1	3.4	2.8	0.2
Portugal	3.2	2.1	3.3	3.2	2.7	0.2
South Africa	4.6	4.2	4.6	4.1	1.8	0.1
Germany (East)	1.2	0.9	1.4	5.6	1.4	0.1
Canada	1.2	1.6	1.0	1.6	1.2	0.1
Israel	..	0.5	1.3	2.2	1.2	0.1
United Arab Republic	0.4	1.0	0.7	0.2	1.1	0.1
Hungary	0.8	2.1	4.5	1.2	0.8	0.1
Other	24.0	20.4	17.7	12.4	9.3	0.7
<u>TOTAL</u>	1,328.2	1,279.0	1,382.8	1,337.0	1,324.3	100.0
SCOURED AND CARBONISED						
United States of America	20.6	25.5	23.1	27.8	27.7	31.2
United Kingdom	15.4	17.5	17.6	12.8	14.5	16.3
Italy	9.6	8.6	8.3	6.3	7.9	8.9
Germany, Federal Republic of	8.3	7.3	7.5	9.0	7.5	8.4
Japan	7.1	5.8	4.9	4.1	5.6	6.3
Iran	2.2	3.2	2.4	3.5	4.7	5.3
France	5.1	4.3	3.2	3.3	2.9	3.3
Canada	5.4	3.0	3.4	4.8	2.9	3.3
Hong Kong	..	0.5	1.4	0.8	2.4	2.7
China, Republic of (Formosa)	0.8	1.0	2.0	1.9	1.9	2.1
Belgium-Luxembourg	1.6	1.5	1.4	2.5	1.7	1.9
Greece	1.3	2.3	1.0	1.1	1.3	1.5
Sweden	0.9	2.0	0.9	0.9	1.2	1.4
Other	20.9	19.4	11.2	8.7	6.6	7.4
<u>TOTAL</u>	99.2	101.9	88.3	87.5	88.8	100.0
TOPS						
Hong Kong	5.3	7.6	9.0	7.2	6.9	30.2
United States of America	0.1	2.5	1.4	1.8	5.5	24.0
Canada	0.8	1.1	2.6	2.4	3.5	15.3
New Zealand	1.1	1.0	1.4	2.2	2.2	9.6
Greece	0.4	0.7	0.9	0.8	1.6	7.0
Iran	0.2	0.1	0.2	0.3	0.6	2.6
Pakistan	0.9	1.0	1.5	0.8	0.5	2.2
United Kingdom	..	0.1	..	..	0.4	1.7
Sweden	..	..	..	0.3	0.4	1.7
China (Mainland)	5.3	0.7	3.9	1.6	0.2	0.9
Other	7.3	6.8	5.0	1.7	1.1	4.8
<u>TOTAL</u>	21.4	21.6	25.9	19.1	22.9	100.0

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

(million lb)

Year ended 30 June	Raw				Semi-processed		Total Wool
	Greasy & Slips	Scoured & Carbonised	Wool Exported on Skins	Total Raw Wool	Wool Tops	Woollen & Worsted Yarn	
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
1962	1,328.4	184.3	116.0	1,628.7	40.1	0.4	1,669.2
1963	1,279.3	191.2	123.8	1,594.3	39.4	0.4	1,634.1
1964	1,383.3	162.3	124.1	1,669.6	46.4	0.7	1,716.8
1965	1,336.9	160.8	127.7	1,625.4	32.7	0.4	1,658.5
1966p	1,324.8	163.2	135.0	1,622.9	39.0	0.5	1,662.4
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
1962	777.1	93.5	66.2	936.8	23.8	0.2	960.8
1963	745.8	96.0	70.3	912.1	23.1	0.3	935.5
1964	814.7	83.1	71.2	969.0	27.0	0.4	996.4
1965	780.7	82.4	72.7	935.8	19.6	0.2	955.6
1966p	767.0	83.7	76.2	926.8	23.4	0.3	950.5

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 (b)		Total Raw Wool	Wool Tops	Woollen & Worsted Yarn	
	Greasy & Slips	Scoured & Carbonised	Sold	Unsold				
GREASY BASIS								
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	10.3	13.8	254.8
1964	39.1	21.6	129.8	66.1	256.6	11.0	12.1	279.7
1965	44.1	24.3	158.6	85.8	312.8	10.0	12.3	335.1
1966p	41.6	24.7	161.8	62.9	291.0	11.8	11.5	314.3
CLEAN EQUIVALENT								
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	6.1	7.9	143.0
1964	22.4	10.2	74.5	38.0	145.1	6.4	6.9	158.4
1965	25.1	11.6	90.2	48.8	175.7	6.0	7.0	188.7
1966p	23.4	11.8	91.3	35.5	161.9	7.1	6.6	175.6

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

TABLE 9. - CONSUMPTION OF RAW WOOL : AUSTRALIA

(million lb)

Year ended 30 June	Greasy Basis			Clean Equivalent		
	Used on Woollen & Worsted Systems	Used for Felt Manufacture (including hats)	Total	Used on Woollen & 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
1962	117.6	4.3	121.9	70.7	2.0	72.7
1963	120.2	3.9	124.1	72.2	1.9	74.1
1964	124.6	3.6	128.2	74.4	1.7	76.1
1965	116.2	2.8	119.0	71.2	1.3	72.5
1966p	115.2	2.0	117.2	70.6	1.0	71.6

TABLE 10. - 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

Average -	(b) 44.0		39.7		12.3	96.0
1947 to 1949	37.3	3.7	27.6	3.0	4.5	76.1
1957 to 1959	38.5	6.7	27.0	2.3	4.3	78.8
1962	38.2	7.8	26.5	5.4	3.9	81.7
1963	37.3	8.4	24.7	6.4	3.6	80.4
1964	46.2		34.0		2.8	83.0
1965	40.0		36.3		2.0	78.3
1966p						

CLEAN EQUIVALENT

Average -	(b) 24.1		23.0		5.8	52.9
1947 to 1949	22.2	2.3	17.3	1.8	2.1	45.7
1957 to 1959	22.6	4.0	16.7	1.4	2.0	46.7
1962	22.6	4.5	16.4	3.3	1.9	48.7
1963	21.8	4.9	15.2	4.0	1.7	47.5
1964	27.9		21.2		1.3	50.5
1965	24.2		22.7		1.0	47.8
1966p						

(a) Wool content of yarns containing a mixture of wool and other fibres. (b) Excludes hand knitting yarns.

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

(million lb)

Year ended 30 June	Net Change in Stocks (a)		Production (c)	Imports (a)	Total Supplies	Exports (a) (c)	Consumption of Raw Wool (d)
	Recorded Stocks	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
1962	(-) 17.1	(-) 43.8	1,698.6	8.2	1,750.6	1,628.7	121.9
1963	(-) 2.1	(-) 30.5	1,672.5	15.4	1,718.4	1,594.3	124.1
1964	(+) 26.0	(+) 1.4	1,784.7	14.5	1,797.8	1,669.6	128.2
1965	(+) 56.2	(+) 55.3	1,784.0	15.7	1,744.4	1,625.4	119.0
1966p	(-) 21.8	(-) 63.4	1,662.3	14.4	1,740.1	1,622.9	117.2

CLEAN EQUIVALENT

Average -							
1947 to 1949	n.a.	(-) 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
1962	(-) 9.3	(-) 37.1	968.2	4.2	1,009.5	936.8	72.7
1963	(-) 1.5	(-) 27.8	950.2	8.2	986.2	912.1	74.1
1964	(+) 16.0	(-) 13.3	1,024.4	7.4	1,045.1	969.0	76.1
1965	(+) 30.6	(+) 14.6	1,015.1	7.8	1,008.3	935.8	72.5
1966p	(-) 13.8	(-) 53.2	937.5	7.7	998.4	926.8	71.6

(a) Greasy, slipe, 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 12. - SUPPLIES AND UTILISATION OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

(million lb)

Year ended 30 June	Net Change in Stocks (a)		Production (c)	Imports (a)	Total Supplies	Exports (a) (c)	Consumption of 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
1962	(-) 18.2	(-) 39.2	1,698.6	10.2	1,748.0	1,669.2	78.8
1963	(-) 1.0	(-) 25.9	1,672.5	17.4	1,715.8	1,634.1	81.7
1964	(+) 24.9	(+) 3.3	1,784.7	15.8	1,797.2	1,716.8	80.4
1965	(+) 55.4	(+) 59.7	1,784.0	17.2	1,741.5	1,658.5	83.0
1966p	(-) 20.8	(-) 62.4	1,662.3	16.0	1,740.7	1,662.4	78.3

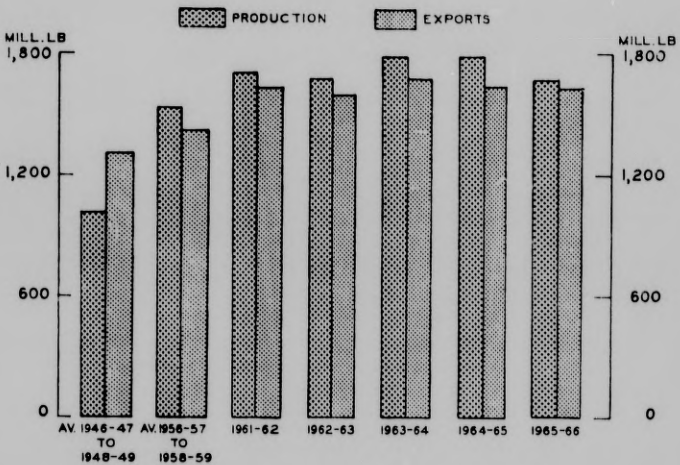
CLEAN EQUIVALENT

Average -							
1947 to 1949	n.a.	(-) 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
1962	(-) 9.8	(-) 33.9	968.2	5.4	1,007.5	960.8	46.7
1963	(-) 1.1	(-) 24.6	950.2	9.4	984.2	935.5	48.7
1964	(+) 15.4	(-) 11.3	1,024.4	8.2	1,043.9	996.4	47.5
1965	(+) 30.3	(+) 17.7	1,015.1	8.7	1,006.1	955.6	50.5
1966p	(-) 13.1	(-) 52.2	937.5	8.6	998.3	950.5	47.8

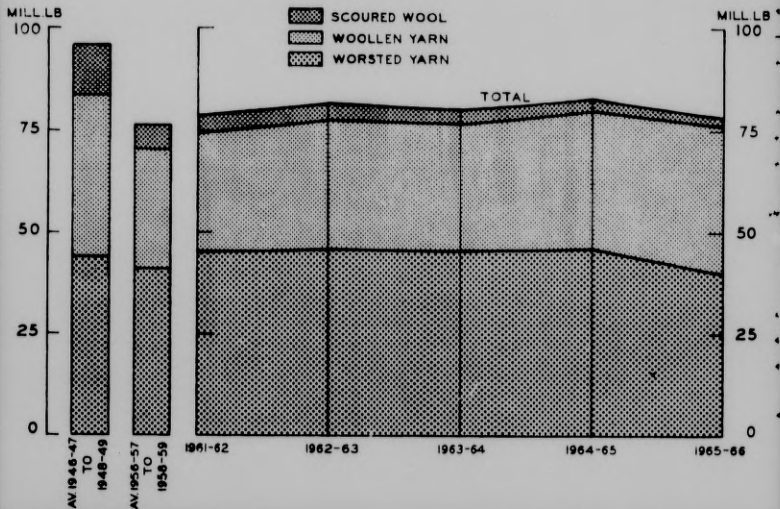
(a) Greasy, slipe, scoured and carbonised wool, wool tops and woollen and worsted yarn (pure and mixed). (b) Balance figure. (c) Includes wool exported on skins.

(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 (GREASY BASIS) AUSTRALIA



CONSUMPTION OF PROCESSED WOOL (GREASY BASIS) AUSTRALIA



III. WORLD PRODUCTION AND CONSUMPTION OF RAW WOOL

NOTE.- (i) Production figures in Table 13 are given according to the "Wool Seasons" 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, from 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 Economic Committee)

Country	1961-62	1962-63	1963-64	1964-65	1965-66p	
	million lb					%
Australia	1,699	1,673	1,785	1,784	1,662	29.1
U.S.S.R.	798	806	809	752	785	13.7
New Zealand	587	620	617	623	695	12.2
Argentina	413	408	395	419	430	7.5
South Africa (a)	337	322	323	316	347	6.1
United States of America	320	300	287	264	253	4.4
Uruguay	185	190	192	187	183	3.2
United Kingdom	131	131	127	127	127	2.2
Other	1,225	1,225	1,229	1,222	1,230	21.5
<u>TOTAL</u>	5,695	5,675	5,764	5,694	5,712	100.0
Clean Equivalent	3,280	3,263	3,336	3,270	3,281	-

(a) Including South West Africa and Basutoland.

TABLE 14. - ESTIMATED WORLD CONSUMPTION OF VIRGIN WOOL

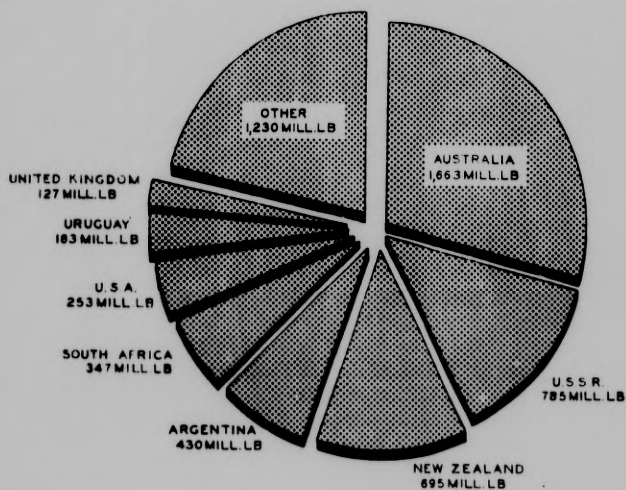
(Clean Equivalent)

(Source : Commonwealth Economic Committee)

Country	1961	1962	1963	1964	1965p	
	million lb					%
United Kingdom	472	448	458	418	403	12.4
United States of America	379	394	379	346	375	11.5
Japan	325	297	302	310	326	10.0
France	301	291	296	266	255	7.9
Italy	187	205	196	185	189	5.8
Germany, Federal Republic of	150	147	153	142	153	4.7
Belgium	84	102	97	95	98	3.0
Australia	65	73	82	77	78	2.4
Turkey	57	57	54	51	53	1.6
U.S.S.R., China (Mainland) and Eastern Europe	784	783	771	789	760	23.4
Other	528	521	535	556	557	17.2
<u>TOTAL</u>	3,332	3,318	3,323	3,235	3,247	100.0

ESTIMATED WORLD PRODUCTION OF RAW WOOL
(GREASY BASIS)
1965-66

SOURCE FOR COUNTRIES OTHER THAN AUSTRALIA:
COMMONWEALTH ECONOMIC COMMITTEE



TOTAL WORLD PRODUCTION - 5,713 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 utilisation 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 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).

(iii) Yields and Conversion Factors:

(A) Production:

- (a) 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 Appendix Table 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 Carbonised Wool. See C (b) in connection with factors adopted concerning clean yield from scoured and carbonised. 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 $\frac{1}{2}$ points. This is to account for the low-yielding dirty wools scoured before export. The yields actually used are shown in Appendix Table A.

- (b) 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 that carbonised 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 carbonised (40 per cent carbonised or clean yield) were adopted for scoured and carbonised 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 carbonised wool consumed in Australia. Factors calculated on this basis are shown in Appendix Table A.

- (c) Wool Exported on Skins. See A (b)
- (d) Slipe Wool. Relatively small quantities of slipe wool are exported and standard factors of 1.25 lb greasy or 0.70 lb clean = 1 lb slipe have been adopted.
- (e) 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 Appendix Table B.
- (f) 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 as to the operations of Australian 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 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.
- (b) 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 lb scoured and carbonised (scoured and carbonised yield of 50 per cent) have been used.
- (c) Tops. See C (e)
- (d) Yarn. See C (f)
- (ii) Brokers' Stocks. 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 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 Appendix Table A.
- (b) 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 lb scoured and carbonised has been used having regard to advice obtained from felt manufacturers as to type, condition, etc., of wools used.
- (c) 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 Appendix Table B). 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.

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	1961-62	57.0
1947-48	55.3	1962-63	56.8
1948-49	55.4	1963-64	57.4
		1964-65	56.9
1956-57	57.7	1965-66	56.4
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	1961-62	58.5
1947-48	57.0	1962-63	58.3
1948-49	57.0	1963-64	58.9
		1964-65	58.4
1956-57	59.2	1965-66	57.9
1957-58	58.2		
1958-59	58.1		

(NOTE. - These represent the assessed clean yield for the whole clip plus approximately 1½ points.)

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

<u>Year</u>	<u>Scoured and Carbonised Yield</u> %	<u>Year</u>	<u>Scoured and Carbonised Yield</u> %
1946-47	59.2	1961-62	63.3
1947-48	58.2	1962-63	63.2
1948-49	59.2	1963-64	62.9
		1964-65	64.6
1956-57	63.9	1965-66	(a) 64.6
1957-58	64.2		
1958-59	64.2		

(a) Assumed yield used for preliminary calculations.

(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> %
1946-47	46.7	1961-62	53.9
1947-48	48.4	1962-63	53.3
1948-49	47.1	1963-64	54.4
		1964-65	54.4
1956-57	52.8	1965-66	(a) 54.4
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 30 June	Wool 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
1962	1.87	2.01	1.49	1.47	0.60
1963	1.82	1.91	1.73	1.37	0.87
1964	1.79	1.80	1.78	1.25	0.97
1965	1.70	1.82		1.20	
1966(b)	1.70	1.82		1.20	
LB SCOURED OR CARBONISED 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
1962	1.19	1.27	0.95	0.93	0.38
1963	1.15	1.21	1.09	0.87	0.55
1964	1.12	1.13	1.12	0.79	0.61
1965	1.10	1.18		0.77	
1966(b)	1.10	1.18		0.77	
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
1962	1.11	1.18	0.88	0.91	0.37
1963	1.07	1.13	1.01	0.85	0.54
1964	1.04	1.05	1.04	0.77	0.60
1965	1.02	1.10		0.75	
1966(b)	1.02	1.10		0.75	

(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 Carbonised Wool of 98 per cent.

K. M. ARCHER

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NOTE.- Inquiries concerning these statistics may be made in Canberra by telephoning 63 9111 Extension 2277 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.