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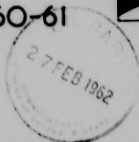
AUS

WOOL PRODUCTION and UTILIZATION



STATISTICAL BULLETIN

No. 9 1960-61



COMMONWEALTH BUREAU

of

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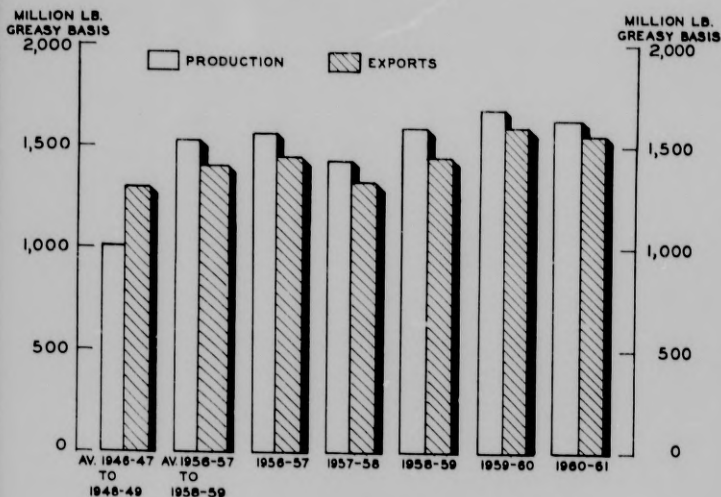
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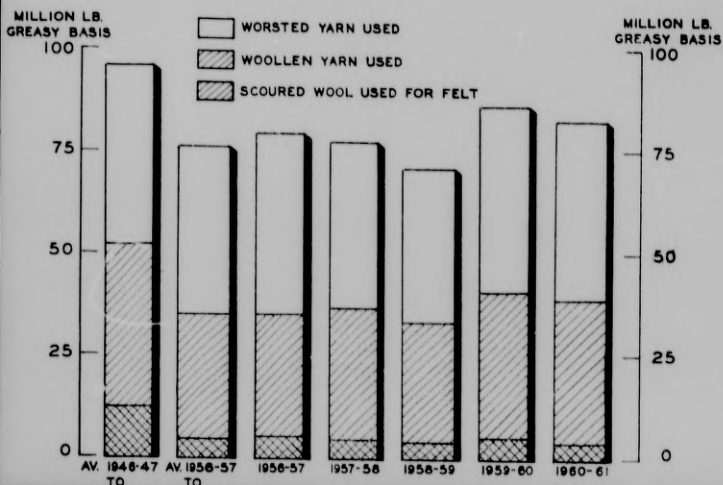
S. R. CARVER

COMMONWEALTH STATISTICIAN

PRODUCTION AND EXPORTS OF RAW WOOL AUSTRALIA



CONSUMPTION OF LOCALLY PROCESSED WOOL AUSTRALIA



STATISTICAL BULLETIN : WOOL PRODUCTION AND UTILIZATION, AUSTRALIA

NO. 9 - 1960-61

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PREFACE

This Bulletin, the Ninth in the series, contains statistics of wool production and utilization for 1960-61, 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 (Tables 2 and 3) are included for the first time. 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 8). 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, 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 9); 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 of 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 both greasy equivalent weights and estimated clean equivalent weights.

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 No. IV - Wool Yields and Conversion Factors, (i) General.

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA. A.C.T.

17TH OCTOBER, 1961.

I. SUMMARY

The principal statistics of Australian wool production and utilization for the years 1956-57 to 1960-61 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 change in stocks and imports, particulars of which will be found in the detailed tables in Section 2.

Total wool production in 1960-61 (greasy basis) remained at a high level. At approximately 1,632 million lb. it was only 48 million lb. (or 2.9 per cent.) below the record production of 1,680 million lb. attained in 1959-60.

Exports of raw wool declined from 1,593 million lb. in 1959-60 to 1,555 million lb. in 1960-61. Total wool exports also decreased in 1960-61 and at 1,586 million lb. were 48 million lb. below the level of 1959-60.

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 Preface, 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 Wool (b)	Total Wool (c)	Raw Wool (d)	Locally Processed Wool (e)
GREASY EQUIVALENT WEIGHT					
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
1956-57	1,564.3	1,450.8	1,478.0	113.5	79.6
1957-58	1,433.9	1,329.7	1,360.5	108.2	77.5
1958-59	1,590.9	1,448.7	1,485.2	107.2	71.2
1959-60	1,680.0	1,592.6	1,634.3	128.6	86.0
1960-61 (f)	1,632.0	1,555.2	1,586.1	113.9	82.7
% Change (f) 1960-61 on -					
Average 1946-47 to 1948-49	(+)61.1	(+)19.3	(+)20.0	(-)9.7	(-)13.9
" 1956-57 to 1958-59	(+)6.7	(+)10.3	(+)10.1	(+)4.1	(+)9.0
ESTIMATED CLEAN EQUIVALENT WEIGHT					
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
1956-57	902.6	841.4	857.5	68.0	47.4
1957-58	813.0	760.2	778.6	65.3	46.6
1958-59	900.4	827.4	849.1	64.7	43.2
1959-60	952.6	911.4	936.2	77.6	51.7
1960-61 (f)	928.6	892.8	911.2	68.9	49.9
% Change (f) 1960-61 on -					
Average 1946-47 to 1948-49	(+)67.5	(+)28.0	(+)28.9	(-)0.4	(-)5.7
" 1956-57 to 1958-59	(+)6.5	(+)10.3	(+)10.0	(+)4.6	(+)9.4

(a) Includes wool exported on skins. (b) Greasy, alips, 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 : STATES

(million lb.)

Year ended 30th June	Greasy Equivalent Weight							Estimated Clean Equiv. Weight : 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
1957	617.8	270.4	219.7	175.3	145.8	25.8	1,457.4	840.9
1958	517.0	260.0	197.1	168.2	149.1	26.2	1,320.0	748.4
1959	633.5	257.5	208.7	170.6	154.6	29.0	1,456.8	824.5
1960	661.6	273.9	223.5	180.3	157.8	29.1	1,529.4	867.2
1961 (c)	607.2	(d)	(d)	162.9	178.6	27.9	1,480.0	842.1

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
1957	18.8	8.4	4.9	2.9	2.6	-	37.7	21.8
1958	15.4	8.1	3.7	1.8	1.9	-	30.9	17.5
1959	22.0	11.3	4.4	1.4	2.7	-	41.8	23.7
1960	21.4	8.7	5.0	0.7	3.0	0.1	38.9	22.1
1961 (c)	22.1	(d)	(d)	(d)	(d)	(d)	38.0	21.6

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
1957	23.7	20.8	3.1	10.6	8.0	2.9	69.2	39.9
1958	24.9	28.4	3.6	15.8	7.3	3.0	83.0	47.1
1959	28.7	30.0	6.0	14.8	9.2	3.6	92.3	52.2
1960	32.4	40.4	7.7	17.3	9.6	4.4	111.7	63.3
1961 (c)	35.0	(d)	(d)	(d)	(d)	(d)	114.0	64.9

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
1957	660.3	299.6	227.7	188.8	156.4	28.7	1,564.3	902.6
1958	557.3	296.5	204.4	185.8	158.3	29.2	1,433.9	813.0
1959	684.2	298.8	219.1	186.8	166.5	32.6	1,590.9	900.4
1960	715.4	323.0	236.2	198.3	170.4	33.6	1,680.0	952.6
1961 (c)	664.3	(d)	(d)	178.7	(d)	(d)	1,632.0	928.6

- (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) Not yet available.

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

WEIGHT : STATES AND AUSTRALIA

Year ended 30th June	N.S.W.	Vic.	Q'ld.	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
1957	70,121	29,230	24,071	15,717	15,926	3,082	129,289	29,129	158,418
1958	67,783	32,014	23,502	17,085	16,499	3,388	133,498	27,083	160,581
1959	70,855	31,373	22,864	16,521	17,266	3,673	137,625	25,220	162,845
1960	73,788	32,216	24,248	17,110	17,964	3,934	139,210	30,275	169,485
1961 (c)	70,931	30,821	(d)	15,382	18,424	3,678	(d)	(d)	163,741

SHORN WOOL (INCLUDING CRUTCHINGS) PRODUCED (MILL. LB. GREASY WEIGHT)

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
1957	617.8	270.4	219.7	175.3	145.8	25.8	1,358.9	98.2	1,457.4
1958	517.0	260.0	197.1	168.2	149.1	26.2	1,241.3	78.7	1,320.0
1959	633.5	257.5	208.7	170.6	154.6	29.0	1,380.4	76.4	1,456.8
1960	661.6	273.9	223.5	180.3	157.8	29.1	1,435.5	93.9	1,529.4
1961 (c)	607.2	(d)	(d)	162.9	178.6	27.9	(d)	(d)	1,480.0

AVERAGE FLEECE WEIGHT (LB. GREASY WEIGHT)

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
1957	8.81	9.25	9.12	11.15	9.15	8.34	10.51	3.37	9.20
1958	7.63	8.12	8.39	9.84	9.04	7.71	9.30	2.91	8.22
1959	8.94	8.21	9.13	10.33	8.96	7.87	10.03	3.03	8.95
1960	8.97	8.50	9.22	10.53	8.79	7.59	10.31	3.10	9.02
1961 (c)	8.56	(d)	(d)	10.59	9.69	7.58	(d)	(d)	9.04

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

(d) Not yet available.

TABLE 4. - IMPORTS OF RAW AND SEMI-PROCESSED WOOL, AUSTRALIA

(million lb.)

Year ended 30th June	Greasy Equivalent Weight			Estimated Clean Equivalent Weight		
	Raw Wool (a)	Semi-processed Wool (b)	Total Wool	Raw Wool (a)	Semi-processed Wool (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
1957	6.6	0.2	6.8	3.9	0.1	4.0
1958	9.3	0.3	9.6	5.4	0.2	5.6
1959	10.8	0.2	11.0	5.9	0.1	6.0
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

(a) Greasy, slipe, scoured and carbonized wool.

(b) Woollen tops and woollen and worsted yarn.

TABLE 5. - EXPORTS OF RAW WOOL ACCORDING TO PRINCIPAL COUNTRIES OF CONSIGNMENT

(mill. lb. actual weight)

Country of Consignment	1956-57	1957-58	1958-59	1959-60	1960-61
<u>GREASY AND SLIPE WOOL</u>					
Japan	233.0	203.9	273.5	335.3	412.5
United Kingdom	306.5	251.3	305.9	266.3	217.7
France	215.1	179.5	157.8	161.8	155.4
Italy	123.4	130.1	113.2	130.5	105.9
Belgium-Luxembourg	106.0	102.2	103.3	106.0	105.0
Germany, Fed. Rep. of.	82.9	66.1	60.0	70.2	60.8
Poland	31.8	39.0	40.9	37.4	30.4
U.S.S.R.	-	-	0.3	39.3	30.3
Czechoslovakia	16.9	17.6	21.1	30.0	25.5
United States of America	37.4	21.2	28.3	24.3	17.2
Mexico	10.1	9.5	14.6	10.3	14.9
Yugoslavia	2.9	8.8	8.9	10.5	13.5
China, Republic of (Mainland)	-	1.0	6.8	15.8	12.8
Switzerland	7.0	4.6	4.0	5.9	5.7
Austria	4.2	4.7	4.8	3.9	4.9
Portugal	1.9	4.1	3.2	2.6	4.0
Other	30.1	38.7	40.5	44.3	44.0
<u>TOTAL:</u>	1,209.2	1,082.3	1,187.1	1,294.4	1,260.5

SCOURED AND CARBONIZED WOOL

United Kingdom	24.3	19.5	24.6	24.7	20.2
United States of America	13.3	13.6	14.8	14.5	19.3
Germany, Fed. Rep. of.	10.5	12.2	8.7	9.4	8.5
Italy	7.7	7.4	7.1	8.7	7.7
Japan	4.0	0.7	4.3	4.3	6.1
Canada	3.3	3.9	4.8	5.4	5.3
France	6.2	6.2	3.7	3.8	4.7
China, Republic of (Mainland)	5.8	5.9	3.9	10.2	4.5
Other	15.6	18.8	18.7	19.5	21.1
<u>TOTAL:</u>	90.7	88.2	90.6	100.5	97.4

WOOL - TOPS

India	3.7	4.2	4.8	4.0	5.2
China, Republic of (Mainland)	4.5	9.0	5.9	7.6	2.4
Hong Kong	0.9	0.1	1.7	1.9	2.4
Korea, Republic of.	1.0	1.1	4.3	4.6	2.2
Japan	2.4	0.5	0.6	1.0	0.7
Other	2.4	2.0	2.9	3.6	3.8
<u>TOTAL:</u>	14.9	16.9	20.2	22.7	16.7

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

(million lb.)

Year ended 30th June -	Raw Wool				Semi-Processed Wool		Total Wool
	Greasy and Slips Wool	Scoured & Carbonized Wool	Wool Exported on Skins	Total Raw Wool	Tops (Woollen)	Yarn (Woollen & Worsted)	
<u>GREASY EQUIVALENT WEIGHT</u>							
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
1957	1,209.8	171.8	69.2	1,450.8	27.1	0.1	1,478.0
1958	1,082.7	164.0	83.0	1,329.7	30.6	0.2	1,360.5
1959	1,187.4	169.0	92.3	1,448.7	36.4	0.1	1,485.2
1960	1,294.7	186.2	111.7	1,592.6	41.6	0.1	1,634.3
1961(a)	1,260.8	180.4	114.0	1,555.2	30.6	0.3	1,586.1

ESTIMATED CLEAN EQUIVALENT WEIGHT

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
1957	716.1	85.4	39.9	841.4	16.0	0.1	857.5
1958	630.1	83.0	47.1	760.2	18.3	0.1	778.6
1959	689.9	85.3	52.2	827.4	21.6	0.1	849.1
1960	753.4	94.7	63.3	911.4	24.7	0.1	936.2
1961 (a)	736.3	91.6	64.9	892.8	18.2	0.2	911.2

(a) Subject to revision.

TABLE 7. - STOCKS OF RAW AND SEMI-PROCESSED WOOL (a) : AUSTRALIA

(million lb.)

As at 30th June -	RAW WOOL					Semi-processed Wool held by Woollen Mills		Total Wool (c)
	Held by Woollen Mills, Woolscourers and Fellmongers		Held by Brokers (b)		Total Raw Wool (c)			
	Greasy & Slip Wool	Scoured & Carbonized Wool	Sold Wool	Unsold Wool		Woollen Tops	Woollen and Worsted Yarn	
<u>GREASY EQUIVALENT WEIGHT</u>								
1956	34.7	15.7	(a)	17.3	67.7	8.0	12.8	88.5
1957	33.2	16.9	136.0	25.7	211.8	7.9	12.9	232.6
1958	41.4	24.1	112.6	32.3	210.4	10.6	12.9	233.9
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 (e)	40.7	23.6	125.2	62.8	252.3	11.8	12.6	276.7

ESTIMATED CLEAN EQUIVALENT WEIGHT

1956	19.7	7.5	(d)	9.8	37.0	4.5	7.3	48.8
1957	19.2	8.0	78.5	14.8	120.5	4.7	7.3	132.5
1958	23.5	11.4	63.8	18.3	117.0	6.3	7.4	130.7
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	7.3	7.8	152.0
1961 (e)	23.2	11.2	71.2	35.8	141.4	7.0	7.2	155.6

(a) Recorded stocks held in Australia. (b) Assumed to be all greasy. (c) Details prior to 1957 are not comparable with later years due to the exclusion of stocks of sold wool held by Brokers. (d) Not available. (e) Subject to revision.

TABLE 8. - CONSUMPTION OF RAW WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Greasy Equivalent Weight			Estimated Clean Equivalent Weight		
	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
1957	108.3	5.2	113.5	65.5	2.5	68.0
1958	103.7	4.5	108.2	63.2	2.1	65.3
1959	103.2	4.0	107.2	62.8	1.9	64.7
1960	123.5	5.1	128.6	75.2	2.4	77.6
1961(a)	110.4	3.5	113.9	67.2	1.7	68.9

(a) Subject to revision.

TABLE 9. - 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 EQUIVALENT WEIGHT

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
1957	41.5	2.8	27.0	3.1	5.2	79.6
1958	36.6	4.1	29.3	3.0	4.5	77.5
1959	33.7	4.3	26.5	2.7	4.0	71.2
1960	39.2	6.3	32.1	3.3	5.1	86.0
1961 (e)	37.4	6.8	31.5	3.5	3.5	82.7

ESTIMATED CLEAN EQUIVALENT WEIGHT

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
1957	24.5	1.7	16.8	1.9	2.5	47.4
1958	21.7	2.5	18.4	1.9	2.1	46.6
1959	20.2	2.6	16.8	1.7	1.9	43.2
1960	23.3	3.8	20.2	2.0	2.4	51.7
1961 (e)	22.2	4.1	19.8	2.1	1.7	49.9

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

(b) Excludes hand knitting yarns.

(c) Includes mixed yarns.

(d) Not separately available.

(e) Subject to revision.

TABLE 10. - SUPPLIES AND UTILIZATION OF RAW WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Net Change in Stocks of Raw Wool (a)		Production of Wool (c)	Imports of Raw Wool (a)	Total Supplies of Raw Wool	Exports of Raw Wool (a)(c)	Consumption of Raw Wool (d)
	Recorded Stocks	Estimated Total Stocks (b)					
<u>GREASY EQUIVALENT WEIGHT</u>							
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
1957	(+) 8.1	(+) 6.6	1,564.3	6.6	1,564.3	1,450.8	113.5
1958	(-) 1.4	(+) 5.3	1,433.9	9.3	1,437.9	1,329.7	108.2
1959	(+) 59.1	(+) 45.8	1,590.9	10.8	1,555.9	1,448.7	107.2
1960	(-) 24.6	(-) 29.4	1,680.0	11.8	1,721.2	1,592.6	128.6
1961 (e)	(+) 7.4	(-) 24.9	1,632.0	12.2	1,669.1	1,555.2	113.9

ESTIMATED CLEAN EQUIVALENT WEIGHT

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
1957	(+) 5.0	(-) 2.9	902.6	3.9	909.4	841.4	68.0
1958	(-) 3.5	(-) 7.1	813.0	5.4	825.5	760.2	65.3
1959	(+) 33.6	(+) 14.2	900.4	5.9	892.1	827.4	64.7
1960	(-) 13.7	(-) 30.1	952.6	6.3	989.9	911.4	77.6
1961 (e)	(+) 4.5	(-) 26.3	928.6	6.8	961.7	892.8	68.9

(a) Greasy, ripe, scoured and carbonized wool. (b) By balance. (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 11. - SUPPLIES AND UTILIZATION OF RAW AND SEMI-PROCESSED WOOL : AUSTRALIA

(million lb.)

Year ended 30th June -	Net Change in Stocks of Wool (a)		Production of Wool (c)	Imports of Wool(a)	Total Supplies of Wool	Exports of Wool (a) (c)	Consumption of Locally Processed Wool (d)
	Recorded Stocks	Estimated Total Stocks (b)					
<u>GREASY EQUIVALENT WEIGHT</u>							
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
1957	(+) 8.1	(+) 13.5	1,564.3	6.8	1,557.6	1,478.0	79.6
1958	(+) 1.3	(+) 5.5	1,433.9	9.6	1,438.0	1,360.5	77.5
1959	(+) 59.5	(+) 45.5	1,590.9	11.0	1,556.4	1,485.2	71.2
1960	(-) 22.6	(-) 27.7	1,680.0	12.6	1,720.3	1,634.3	86.0
1961 (e)	(+) 5.9	(-) 23.0	1,632.0	13.8	1,668.8	1,586.1	82.7

ESTIMATED CLEAN EQUIVALENT WEIGHT

Average -							
1947 to 1949	(f)	(-) 200.2	554.3	5.4	759.9	707.0	52.9
1957 to 1959	(+) 12.4	(+) 3.4	872.0	5.2	873.8	828.1	45.7
1957	(+) 5.2	(+) 1.7	902.6	4.0	904.9	857.5	47.4
1958	(-) 1.8	(-) 6.6	813.0	5.6	825.2	778.6	46.6
1959	(+) 33.8	(+) 14.1	900.4	6.0	892.3	849.1	43.2
1960	(-) 12.5	(-) 28.5	952.6	6.8	987.9	936.2	51.7
1961 (e)	(+) 3.6	(-) 24.8	928.6	7.7	961.1	911.2	49.9

(a) Greasy, ripe, scoured and carbonized wool, woollen tops and woollen and worsted yarn (pure and mixed). (b) By balance. (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.

III. WORLD PRODUCTION AND CONSUMPTION OF RAW WOOLTABLE 12. - ESTIMATED WORLD PRODUCTION OF RAW WOOL

(Greasy basis)

Country	1956-57	1957-58	1958-59	1959-60	1960-61 (a)	
					Production	Proportion of Total
	Mill.lb.	Mill.lb.	Mill.lb.	Mill.lb.	Mill.lb.	%
Australia	1,564	1,434	1,591	1,680	1,632	29.3
U.S.S.R.	567	631	700	765	773	13.9
New Zealand	491	496	540	577	580	10.4
Argentina	388	409	421	423	409	7.3
United States	311	296	295	319	324	5.8
South Africa	321	299	314	319	305	5.5
Uruguay	190	200	175	159	181	3.3
United Kingdom	104	114	119	124	120	2.2
Other	1,169	1,171	1,200	1,237	1,241	22.3
<u>TOTAL:</u>	5,105	5,050	5,355	5,603	5,565	100.0
Clean Equivalent	2,950	2,889	3,047	3,216	3,196	-

(a) Provisional.

Source : Commonwealth Economic Committee.

TABLE 13. - ESTIMATED WORLD CONSUMPTION OF VIRGIN WOOL

(Clean basis)

Country	1956	1957	1958	1959	1960 (a)	
					Consumption	Proportion of Total
	Mill.lb.	Mill.lb.	Mill.lb.	Mill.lb.	Mill.lb.	%
United Kingdom	475	481	444	509	481	14.9
United States	404	339	306	394	372	11.6
France	276	310	266	267	280	8.7
Japan	171	188	161	229	271	8.4
Italy	127	161	156	179	214	6.7
Germany (Fed.Rep.)	176	181	139	150	151	4.7
Belgium	78	80	70	78	87	2.7
Australia	65	69	63	73	74	2.3
Netherlands	28	26	21	25	22	0.7
U.S.S.R., China and Eastern Europe	559	614	659	717	742	23.1
Other	507	502	485	534	520	16.2
<u>TOTAL:</u>	2,866	2,951	2,770	3,151	3,214	100.0

(a) Provisional.

Source : Commonwealth Economic Committee.

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 (formerly Australian Wool Realization Commission) 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% for carding and carbonizing wools; 19% 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 (formerly Australian Wool Realization Commission) 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%).

(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% clean yield from scoured for Australian scoured wool (excluding carbonizing wools) has been adopted. This allows for vegetable content and variation from standard moisture remains 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% scoured yield) and 2.5 lb. greasy = 1 lb. carbonized (40% 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

(1) 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 (subject to periodical review) of 95% clean yield from scoured and carbonized and 2.0 lb. greasy = 1 lb. scoured and carbonized (scoured and carbonized yield of 50%) 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% 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% 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.

APPENDIX A.WOOL YIELDS AND CONVERSION FACTORS, AUSTRALIA

- (i) Average Clean Yields for Australian Clip as assessed by the Wool Statistical Service (formerly Australian Wool Realization Commission).

<u>Year</u>	<u>Clean Yield</u> %	<u>Year</u>	<u>Clean Yield</u> %
1946-47	53.4	1957-58	56.7
1947-48	55.3	1958-59	56.6
1948-49	55.4	1959-60	56.7
1956-57	57.7	1960-61	56.9

- (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	1957-58	56.2
1947-48	57	1958-59	58.1
1948-49	57	1959-60	58.2
1956-57	59.2	1960-61	58.4

(NOTE: These represent the assessed clean yield for the whole clip plus approximately $\frac{1}{2}$ 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	1957-58	64.2
1947-48	58.2	1958-59	64.2
1948-49	59.2	1959-60	64.2
1956-57	63.9	1960-61	(a) 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> %
1956-57	52.8	1959-60	54.0
1957-58	53.8	1960-61	(a) 54.0
1958-59	53.6		

(a) Assumed yield used for preliminary calculations.

APPENDIX 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	Woolen Yarn
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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 (b)	1.83	2.00 1.62	1.50 0.70

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 (b)	1.17	1.28 1.04	0.96 0.44

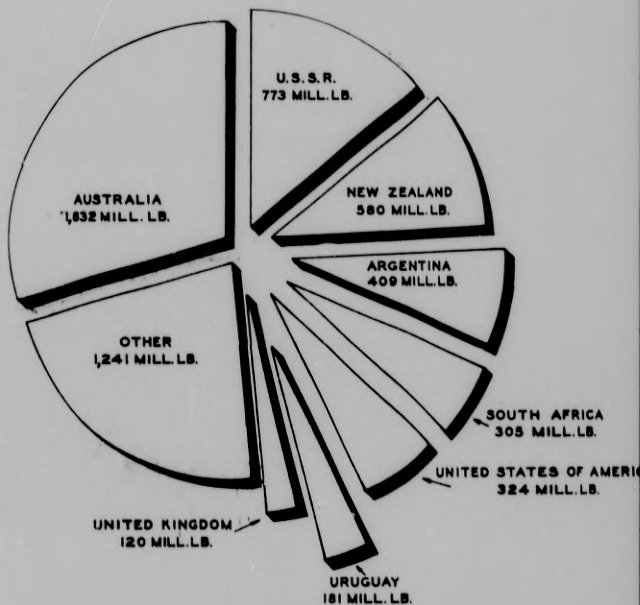
LB. CLEAN PER LB. OF PRODUCT

	(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 0.94	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 (b)	1.09	1.19 0.97	0.94 0.43

- (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%.
- (d) Standard Clean yield from Scoured or Carbonised wool of 98%.

ESTIMATED WORLD PRODUCTION OF RAW WOOL 1960-61

(SOURCE: COMMONWEALTH ECONOMIC COMMITTEE)



TOTAL WORLD PRODUCTION
5,565 MILLION LB.-GREASY BASIS