

THE STRUCTURE OF WOOL AND WOOL TEXTILE  
PRODUCTION, TRADE AND CONSUMPTION 1948-68

by

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## THE AGRICULTURAL ECONOMICS RESEARCH UNIT

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## P R E F A C E

In this bulletin we bring up to date the statistical series given in Publication No. 42, the aim of which was to present a picture of the structure of the world wool market by tracing through the major flows of wool from producer to final user and measuring the trend changes, since 1948, in these flows. From this we can secure an approximate indication of the origins of demand changes for wool throughout the world.

The data series, presented in Publication No.42, terminated in 1965. They are here given for a further two years - to the end of 1967.

B. P. Philpott

Lincoln College,  
March 1969



C O N T E N T S

INTRODUCTION

- I        STRUCTURE OF WOOL & WOOL TEXTILE PRODUCTION,  
          TRADE & CONSUMPTION IN 1965
  
  - II        WOOL PRODUCTION
  
  - III        TRADE IN RAW WOOL
  
  - IV        SUPPLY STOCKS AND WOOL AVAILABLE FOR CONSUMPTION
  
  - V         MILL CONSUMPTION OF RAW WOOL
  
  - VI        MILL CONSUMPTION OF FIBRES OTHER THAN VIRGIN WOOL
  
  - VII       NET TRADE OF WOOL-TYPE TEXTILES
  
  - VIII      WOOL-TYPE TEXTILES AVAILABLE FOR CONSUMPTION
  
  - IX        PER CAPITA AVAILABILITY OF WOOL-TYPE TEXTILES
  
  - X         SOURCES AND USES OF WOOL 1952-1967
-



THE STRUCTURE OF WOOL AND WOOL TEXTILE  
PRODUCTION, TRADE AND CONSUMPTION 1958-68

INTRODUCTION

In the pages which follow we have set out, in the form of charts and tables, the results of an attempt to measure the disposition of wool produced by the major producing and consuming countries in the post-war period. Our aim is to present a picture of the structure of the world wool market, by tracing through the major flows of wool from the point of raw production to its final use in the form of wool type textiles measured in clean fibre content; and to identify the growing points of world demand for wool.

The paper is mainly descriptive and no attempt is made at analysis, though the data presented was assembled in the course of an analysis of factors affecting wool prices. In such an analysis we would be concerned, as with the analysis of prices of other agricultural products, with the interaction of supply and demand. But unlike other New Zealand export products, for example meat, in which we can confine our attention to one particular type of meat in a few particular countries, we are concerned, except in exceptional circumstances, with wool as a whole because of the infinite possibilities

of substitution possible between different grades and types. And we have to take as our market the world as a whole, since nearly every country in the world consumes wool in greater or smaller quantities, if only in the form of small quantities of imported wool textiles.

For many of these smaller wool markets there are not available the necessary economic data for incorporation in a world demand analysis for wool, and in such an analysis we therefore have to group together the important countries making up a "wool world". We have done this by identifying a group of 21 countries known henceforth as the "21 country group", consisting of countries which produce and consume the major proportion of the world's wool (outside the Communist blocs). This group, or "wool world", we can regard as a largely self-contained unit producing, trading and consuming raw wool and wool textiles, but exporting some of its wool supplies to the countries of the outside world, either in the form of small quantities of raw wool or of wool textiles.

The countries which make up this 21 country group are as follows, divided into four sub groups:

<u>The 5 Wool Producers</u>	<u>The 5 Wool Textile Exporters</u>	<u>The 4 Wool Textile Importers</u>	<u>The 7 Western European Countries</u>
Argentina	United Kingdom	West Germany	Austria
Australia	Belgium	Netherlands	Denmark
New Zealand	France	Canada	Finland
Sth Africa	Italy	Sweden	Ireland
Uruguay	Japan		Norway
			Switzerland
			Greece

Though it is a very important wool consumer, the United States has been excluded from this 21 country group, largely because we have found, in other work, that the U.S. trends in wool textile consumption have been quite different from those in other countries, possibly because of differences in the rate of development and competition of synthetic fibres.

Apart from the United States, the rest of the world, mainly small countries importing quantities of raw wool or wool textiles from the 21 countries, have been lumped together into a group called "Other Countries".

In the next section we proceed to show the flows of wool arranged according to this grouping of countries for the year 1965. In succeeding sections, the charts and tables give the annual development over the last 20 years in each of the major constituents of these flows.

The figures which follow have all been derived, after necessary rearrangement, from official sources including:

- O.E.C.D. : "Trade Statistics"
- C.E.C. : "Wool Intelligence"
- I.W.S. : "World Wool Digest"
- F.A.O. : Production Year Books Per Capita Fibre Consumption Levels given in various issues of "Monthly Bulletin of Agricultural Economics and Statistics"
- I.W.T.O. : "Wool Questionnaires".

I. STRUCTURE OF WOOL & WOOL TEXTILE PRODUCTION,  
TRADE, AND CONSUMPTION IN 1965

Taking the grouping of countries given above the structure of the "world" wool market in one year 1965 is given in Figure 1. All measurements are in million lb. clean.

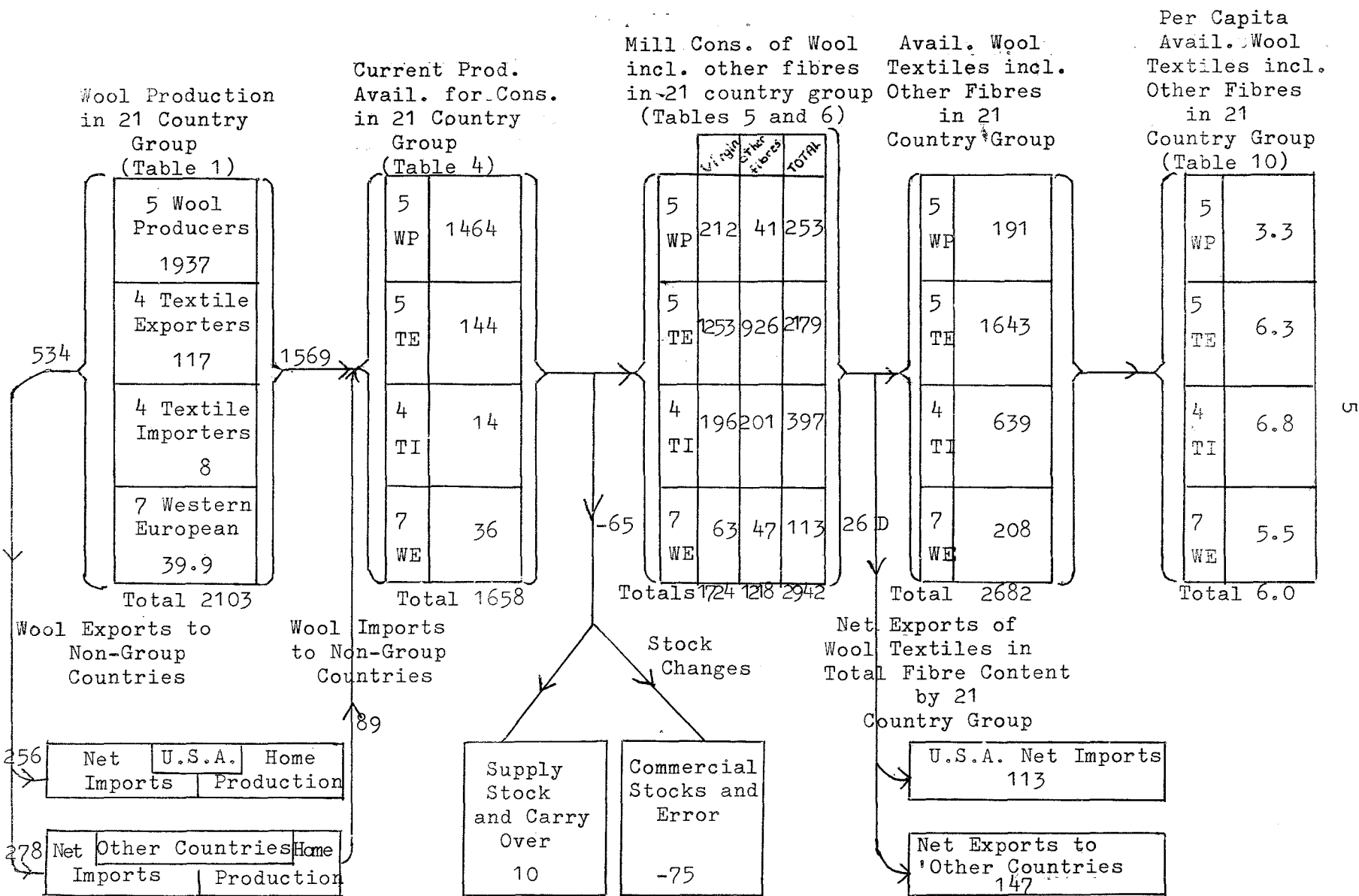
Figure 1 shows blocks of countries between which there are shown flows of wool and wool-type textiles with the relevant quantities indicated. Only inter-group and no intra-group flows are shown. That is to say since we are considering the 21 country group as one virtually self-contained bloc only the flows to and from outside countries are shown. To show the trade flows between each of the 21 countries would confuse the picture far too much.

This chart shows raw wool production in the 21 country group in 1965 was 2103 million lb. From this exports of wool (534 mn. lb.) flowed to the U.S.A. and "Other Countries" from which there was also a small inward import flow of wool (89 mn.lb.). From the balance of wool available was deducted wool added to (10 mn.lb.) government and official stockpiles giving wool available for mill consumption. However there was an addition of 75 mn. lb. representing an estimated decrease in commercial stocks and errors. (This figure must be regarded as only a very tentative estimate of commercial stock increase as it has been calculated as a residual from comparing available supplies with mill consumption. These two figures come from different sources so that the residual is partly reduction in commercial stocks and partly unexplained errors. Hence we have called it "commercial stocks and errors".)

FIGURE 1

1965  
FLOW PATTERN, WOOL AND WOOL TEXTILES

Mn.lbs. Clean



This left 1724 mn. lb. of wool available for mill consumption during 1965. In addition there were 1218 mn. lb. of other fibres consumed in wool-type textile industries, giving total fibre content of wool textile output of 2942 mn. lb.

From this 260 mn. lb. fibre content of wool textile exports were sent to the United States and "Other Countries", leaving 2682 mn. lb. fibre content of wool textiles for consumption in 21 countries. When divided by each country's population this gives per capita consumption, or more accurately per capita availability, of wool textiles.

This chart gives a picture of the whole flow in 1965 of wool and wool textiles.

In the following sections we take each of these major sections, viz, wool production, mill consumption etc., and present (in the tables numbered at the head of each block in Figure 1), the statistics for the whole period 1948-67.

## II. WOOL PRODUCTION

Table I and Figure 2 give the trends in wool production measured in lbs. clean equivalent, in the main country groupings. The figures are derived from Commonwealth Economic Committee and F.A.O. published statistics. For countries in the southern hemisphere, production for the season spanning two calendar years, e.g. 1947/48, is included with calendar year production in the second year, i.e. 1948, in the northern hemisphere.

The total production in the 21 or 22 country groups reflects very closely the trend and fluctuations in the 5 major producers, where production has in the last two years again started rising after the stagnation in 1964-1966 due to drought in Australia and Argentina.

The steady decline in U.S.A. production continues unabated.

FIGURE 2

WOOL PRODUCTION IN MAJOR COUNTRY GROUPS

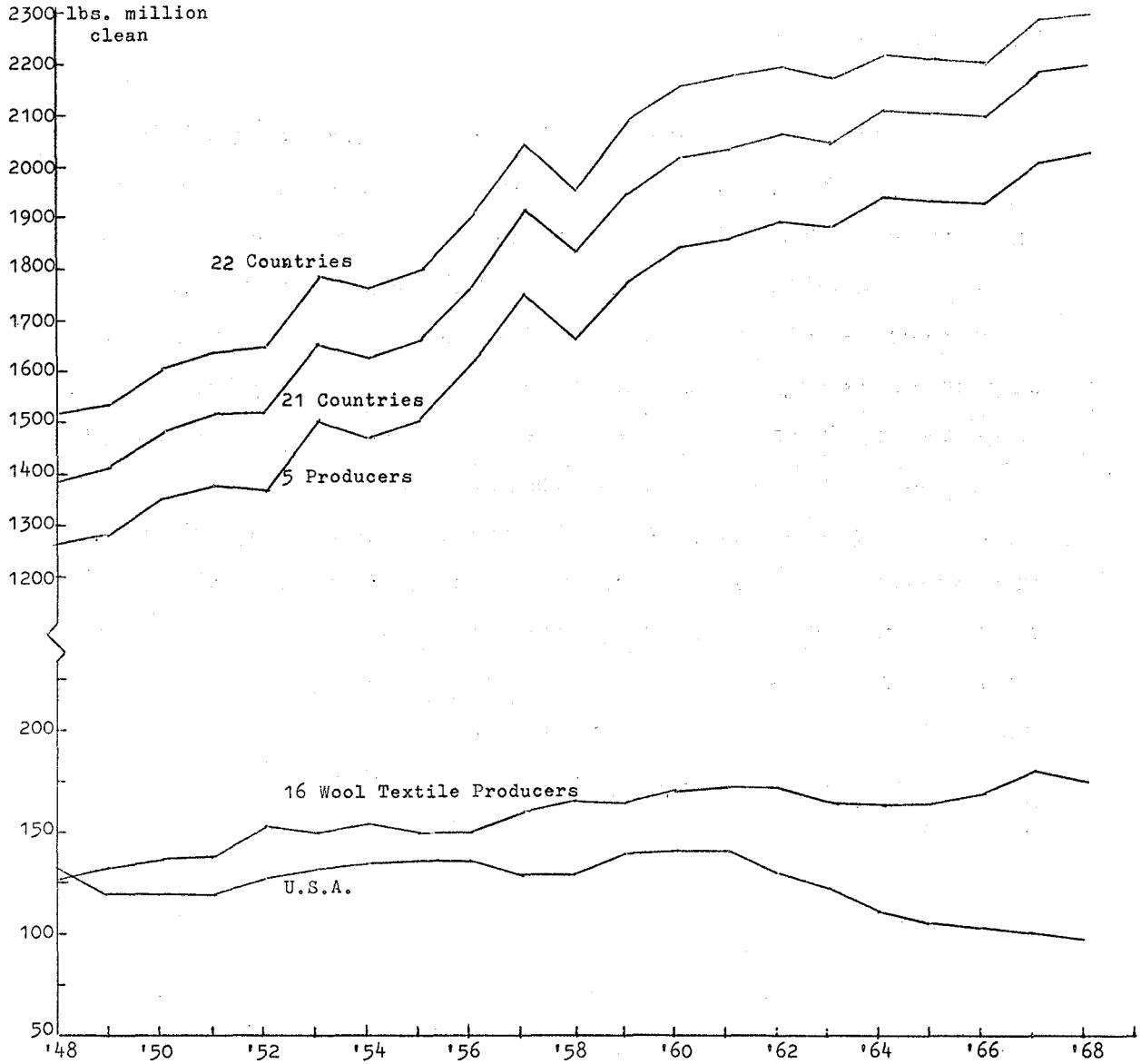


TABLE I : RAW WOOL - CLEAN HOME PRODUCTION (mn. lbs.)

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967*	1968*
	*Provisional																				
Argentina	280	258	251	256	249	246	228	212	226	224	241	247	256	266	252	247	253	230	237	256	245
Australia	545	591	642	641	624	735	697	720	804	903	810	902	928	916	940	915	956	1009	931	995	999
New Zealand	241	244	260	260	274	283	291	310	315	340	341	371	399	403	411	434	442	439	488	498	516
South Africa	102	108	108	122	122	134	142	153	158	178	157	154	166	168	178	170	177	148	171	152	160
Uruguay	91	81	92	103	104	109	116	115	113	110	119	104	94	107	111	115	115	111	104	106	107
Total: 5 Wool Producers	1259	1281	1353	1382	1373	1507	1474	1510	1616	1755	1668	1778	1843	1860	1892	1881	1943	1937	1931	2007	2027
U.K.	52.9	57.3	59.5	55.1	63.9	67.0	70.1	67.2	68.8	75.6	78.9	82.0	80.7	86.6	86.2	81.8	79.2	79.9	81.1	94.3	92.9
Belgium	0.7	0.7	0.8	0.7	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
France	11.0	11.0	11.0	19.8	19.8	21.2	22.0	22.0	22.0	22.5	20.7	22.0	22.9	20.7	19.2	18.5	21.4	22.5	23.8	22.1	20.4
Italy	19.8	22.0	22.0	22.0	22.0	15.9	15.0	13.9	12.8	13.0	13.2	13.4	13.4	13.4	13.0	13.2	13.4	13.7	14.1	13.7	13.7
Japan	1.2	1.3	1.5	1.7	2.3	2.9	3.1	3.3	3.5	3.7	4.2	4.0	3.5	3.1	2.2	1.8	1.1	0.9	0.7	0.7	0.7
Total: 5 Wool Textile Exporters	85.6	92.3	94.8	99.3	108.6	107.5	110.7	106.9	107.8	115.7	117.7	122.1	120.9	124.2	121.0	115.7	115.5	117.4	120.1	131.2	128.1
W.Germany	5.0	7.0	8.0	7.0	7.0	6.0	5.5	4.9	4.4	4.4	4.6	4.4	4.2	4.0	4.0	3.7	3.5	3.3	3.1	3.1	2.8
Netherlands	2.2	2.0	1.7	1.6	1.8	1.9	1.8	1.7	1.3	1.5	1.8	1.5	1.3	1.3	1.3	1.8	1.3	1.3	2.6	2.6	2.6
Canada	7.0	5.0	5.0	4.0	5.0	5.0	5.0	4.6	4.6	4.4	4.4	4.6	4.6	4.4	4.2	4.0	3.5	3.3	3.1	2.6	2.6
Sweden	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total: 4 Wool Textile Importers	15.0	14.7	15.3	13.2	14.4	12.5	12.7	11.6	10.7	10.7	11.2	10.9	10.5	10.1	9.9	9.9	8.7	8.3	9.2	8.7	8.4
Austria	1.2	1.0	0.8	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Denmark	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4
Finland	2.1	2.3	2.1	2.3	1.8	1.9	1.7	1.4	0.9	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
Ireland	8.8	8.8	8.8	8.8	11.0	10.5	11.0	12.1	12.8	13.0	15.0	16.1	16.5	16.8	17.6	17.4	17.2	17.4	17.2	16.5	15.8
Norway	3.7	4.1	4.3	4.5	4.7	4.7	4.7	5.5	5.5	6.0	6.0	6.4	7.1	6.4	7.1	7.5	7.5	9.3	8.2	8.2	8.2
Switzerland	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Greece	8.8	8.8	8.8	8.8	11.0	11.7	12.8	12.8	12.8	13.0	13.7	13.9	13.9	14.1	14.6	14.1	14.1	11.2	12.6	12.6	12.6
Total: 7 Western Europe	25.3	25.7	25.5	25.9	30.0	30.4	31.7	33.3	33.6	34.5	36.8	32.2	39.6	39.4	41.3	41.0	40.6	39.9	40.0	39.3	38.6
Total: 21 Countries	1385	1415	1489	1520	1525	1657	1629	1662	1768	1916	1834	1949	2014	2034	2064	2048	2108	2103	2100	2186	2202
U.S.A.	132.3	119.0	119.0	119.0	127.9	133.8	136.2	137.3	136.9	130.3	130.1	140.2	142.0	140.7	130.0	123.7	112.2	106.0	103.4	101.5	97.6
Total: 22 Countries	1517	1534	1608	1639	1654	1791	1765	1799	1905	2046	1964	2090	2156	2175	2194	2171	2220	2209	2204	2288	2300

### III. TRADE IN RAW WOOL

Figure 3 and Table II on which it is based, give the trends in trade in raw wool from the 21 country group. This is divided into exports from the group to the U.S.A. and exports to other countries. The latter has risen very rapidly - about fourfold since the early fifties. Also shown are the imports into the 21 country group from "Other Countries". These imports have shown a slowly rising trend over the period, the fluctuations around this trend being quite closely correlated with levels of mill consumption in the 21 country group.

Table III gives the greater detail underlying the figures in Table II by showing the exports and imports of each of the twenty one countries making up the group.

**FIGURE 3**      **TRADE IN RAW WOOL (lbs. million clean)**

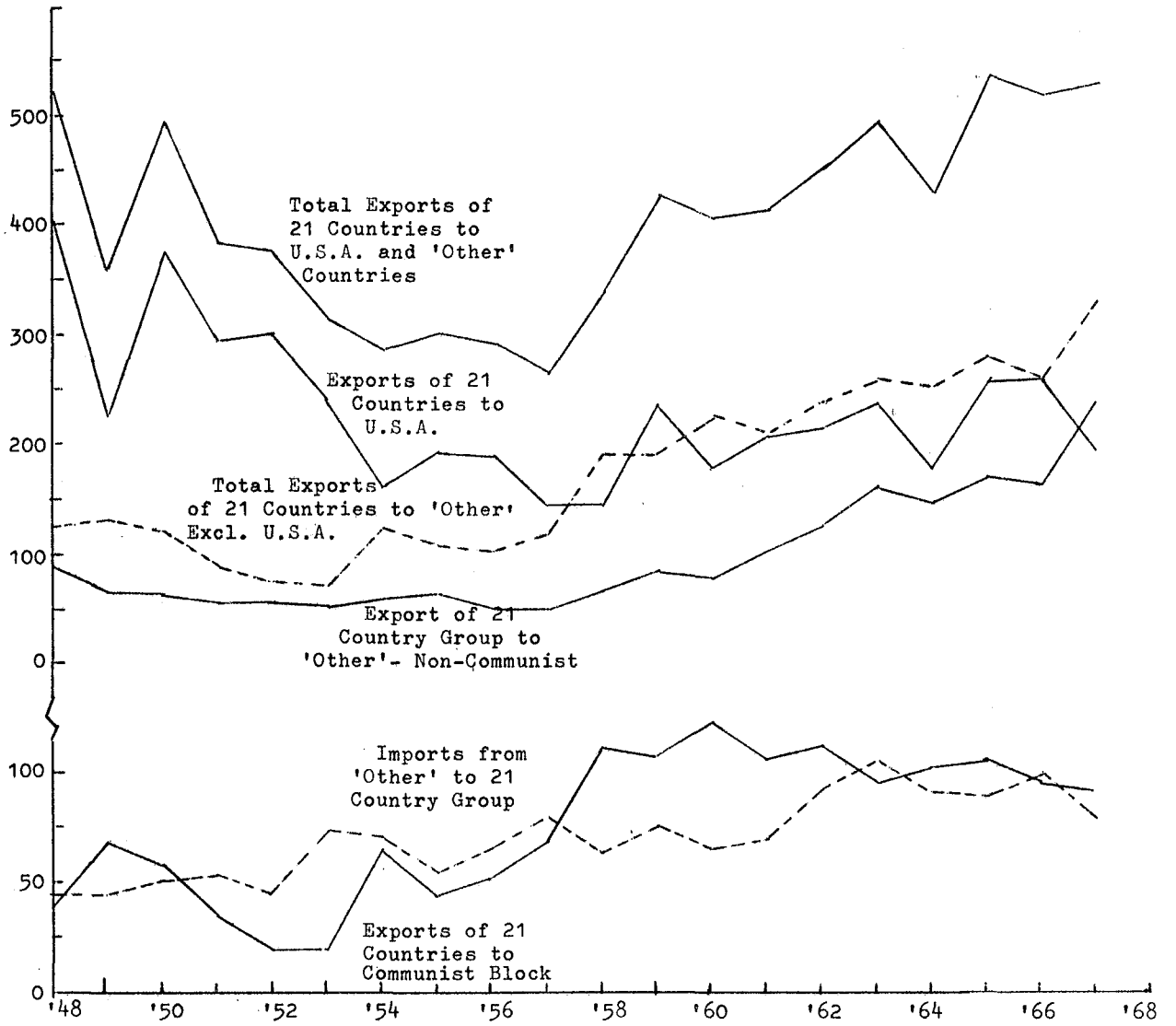


TABLE II : TRADE IN RAW WOOL 21 COUNTRIES

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
5 Wool Producers																				
Exports to USA	392.6	218.4	368.9	285.1	285.0	232.0	155.1	179.2	174.2	132.1	131.7	207.7	162.1	186.3	194.3	211.2	157.3	231.9	241.6	179.5
Exports to other	114.4	121.3	112.3	81.6	69.2	62.2	114.9	98.6	95.6	111.5	185.6	180.4	215.1	194.3	209.9	222.5	223.3	241.0	223.0	301.1
Total Exports to Non-21	507.0	339.7	473.2	366.7	354.2	294.2	270.0	277.8	269.8	243.6	317.3	388.1	377.2	380.6	404.3	433.7	380.6	472.9	464.6	480.6
5 Textile Exprs.																				
Exports to USA	6.3	5.3	13.0	7.6	12.4	6.5	5.0	8.6	9.8	7.2	8.4	14.2	10.0	12.9	12.6	18.4	14.9	16.8	13.1	12.6
Exports to other	8.9	11.2	8.8	7.2	5.3	8.6	8.8	9.2	6.1	6.8	4.9	8.8	9.0	13.0	20.4	25.6	20.2	26.6	26.8	25.2
Total Exports	15.2	16.5	21.8	14.8	17.7	15.1	13.8	17.8	15.9	14.0	13.3	23.0	19.0	25.9	33.0	44.0	35.1	43.4	39.9	37.8
Imports from Other	37.8	37.8	43.2	48.5	40.0	63.2	63.2	50.9	55.7	69.5	56.6	64.9	58.2	59.8	49.2	78.7	69.2	69.6	79.9	63.9
4 Textile Imprsr.																				
Exports to USA	1.5	1.5	1.9	1.4	1.8	1.7	2.0	4.2	3.9	4.4	4.7	9.1	4.7	4.4	4.7	5.4	4.5	5.6	2.4	2.3
Exports to Other	-	-	0.1	0.1	0.2	0.3	0.1	0.3	0.6	1.1	0.8	0.9	1.3	0.4	4.2	6.0	3.6	3.8	4.5	4.4
Total Exports	1.5	1.5	2.0	1.5	2.0	2.0	2.1	4.5	4.5	5.5	5.5	10.0	6.0	4.8	8.9	11.4	8.1	9.4	6.9	6.7
Imports from Other	2.8	3.7	5.8	3.7	3.3	8.4	6.3	6.9	6.8	7.3	5.2	7.7	6.4	6.9	6.3	19.2	19.8	15.6	14.1	11.9
7 Western Europe																				
Exports to USA	0.6	1.0	1.0	0.5	1.6	1.2	0.7	1.1	1.1	0.9	1.7	2.6	2.1	1.7	1.6	1.0	0.6	1.2	1.5	2.0
= Total Exports (Other Zero)															2.9	4.4	4.1	6.7	5.9	4.5
Imports from Other	3.6	2.4	1.7	1.5	1.5	2.8	1.9	1.6	2.5	2.7	1.8	3.1	2.3	2.7	1.5	4.9	3.9	4.3	5.1	5.6
Total 21 Countries																				
Exports to USA	401.0	226.2	376.8	294.6	300.8	241.4	162.8	193.1	189.0	144.6	146.5	233.6	178.9	205.3	213.2	236.0	177.3	255.5	258.6	196.4
Exports to Other non-Communist	85.7	64.9	63.3	54.1	55.2	52.2	58.2	63.3	49.8	49.8	66.8	82.6	77.7	101.7	124.7	161.7	148.8	170.3	164.4	240.0
Exports to Other Communist	37.6	67.6	57.9	34.8	19.5	18.9	65.6	44.8	52.5	69.6	124.5	107.5	147.7	106.0	112.7	96.8	102.4	107.8	95.8	92.8
Total Exports to Other	123.3	132.5	121.2	88.9	74.7	71.1	123.8	108.1	102.3	119.4	191.3	190.1	225.4	207.7	237.4	258.5	251.2	278.1	260.2	332.8
Total Exports	524.3	358.7	498.0	383.5	375.5	312.5	286.6	301.2	291.3	264.0	337.8	423.7	404.3	413.0	450.6	494.5	428.5	533.6	518.8	529.2
Total Imports from Other	44.2	43.9	50.7	53.7	44.8	74.4	71.4	59.4	65.0	79.5	63.6	75.7	66.9	69.4	93.5	105.3	92.9	89.5	99.1	81.4

TABLE III : NET TRADE IN RAW WOOL, 21 COUNTRIES (m.lbs)

M denotes Imports  
X denotes Exports

	1948		1949		1950		1951		1952		1953		1954		1955		1956		1957	
	M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X
Argentina		229.0		94.8		148.6		58.7		64.2		118.6		68.1		80.9		68.8		65.1
(1) Australia		117.2		122.4		147.4		165.1		123.6		71.0		110.5		92.1		89.0		95.5
New Zealand		74.3		60.2		83.5		57.3		103.3		58.6		55.5		57.8		58.5		47.9
Sth Africa		22.9		18.7		18.0		26.6		30.3		13.7		17.0		27.5		28.0		25.8
Uruguay		63.6		43.6		75.7		59.0		32.8		32.3		18.9		19.5		25.5		9.3
5 Wool Producers		507.0		339.7		500.5		366.7		354.2		294.2		270.0		277.8		269.8		243.6
U.K.	21.9	4.1	28.5	4.2	31.0	9.4	28.4	3.7	30.9	9.0	35.9	5.2	38.1	4.6	34.5	5.7	34.2	6.7	41.8	5.5
(2) Belgium	9.7	1.7	2.8	6.9	2.4	4.0	0.9	3.8	0.7	2.1	2.4	4.9	3.9	3.7	3.9	5.5	3.4	1.6	3.8	0.9
France	4.8	6.7	4.9	3.0	8.3	4.3	13.9	4.4	7.2	4.4	13.0	3.2	12.6	4.1	8.9	5.0	10.8	6.2	12.5	5.5
Italy	1.4	2.7	1.6	2.4	1.4	4.1	1.0	2.9	1.0	2.2	1.6	1.8	1.4	1.4	1.8	1.6	1.7	1.4	2.3	2.1
Japan	-	-	-	-	0.1	-	4.3	-	0.2	-	10.3	-	7.2	-	1.8	-	5.6	-	9.1	-
5 Wool Text. Exp.	37.8	15.2	37.8	16.5	43.2	21.8	48.5	14.8	40.0	17.7	63.2	15.1	63.2	13.8	50.9	17.8	55.7	15.9	69.5	14.0
Net Trade (Imp.)	22.6		21.3		21.4		33.7		22.3		48.1		49.4		33.1		39.8		55.5	
West Germany	1.0	-	2.3	-	4.1	0.1	2.0	0.1	2.5	0.2	6.8	0.7	5.3	0.3	5.2	0.6	5.3	1.1	5.9	1.4
(3) Netherlands	0.1	0.1	0.2	0.4	2.2	0.3	1.2	0.4	0.4	0.3	0.6	0.1	0.6	1.1	1.1	3.5	1.0	3.1	1.0	3.7
Canada	1.6	1.4	1.1	1.1	1.6	1.6	0.4	1.0	0.3	1.5	0.9	1.2	0.3	0.7	0.5	0.4	0.4	0.3	0.3	0.4
Sweden	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-
4 Wool Text. Imp.	2.8	1.5	3.7	1.5	5.8	2.0	3.7	1.5	3.3	2.0	8.4	2.0	6.3	2.1	6.9	4.5	6.8	4.5	7.3	5.5
Net Trade (Imp.)	1.3		2.2		3.8		2.2		1.3		6.4		4.2		2.4		2.3		1.8	
Austria	0.4	-	0.2	-	0.2	-	0.2	-	0.1	-	0.1	-	0.1	-	0.2	-	0.7	-	0.7	-
Denmark	0.1	-	0.1	-	0.1	-	-	-	0.2	-	0.3	-	0.2	-	-	-	-	-	-	-
(4) Finland	0.6	-	0.6	-	0.9	-	0.6	-	0.7	-	0.6	-	0.6	-	-	-	1.0	-	1.0	-
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	0.6	0.1	1.0	0.1	1.0	0.1	0.5	0.1	1.6	0.3	1.2	0.3	0.7	0.5	1.1	0.3	1.1	0.3	0.9
Norway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	2.5	-	1.4	-	0.4	-	0.6	-	0.4	-	1.5	-	0.7	-	0.9	-	0.5	-	0.7	-
(5) 7 Western Europe	3.6	0.6	2.4	1.0	1.7	1.0	1.5	0.5	1.5	1.6	2.8	1.2	1.9	0.7	1.1	1.1	2.5	1.1	2.7	0.9
Net Trade (Imp.)	3.0		1.4		0.7		1.0			0.1	1.6		1.2		0.5		1.4		1.8	
21 Countries:																				
Exports		524.3		358.7		525.3		383.5		375.5		312.5		286.6		301.2		291.3		264.0
Imports	44.2		43.9		50.7		53.7		44.8		74.4		71.4		59.4		65.0		79.5	
Net Exports		480.1		314.8		474.6		349.8		330.7		238.1		215.2		241.8		226.3		184.5

Table III (cont'd)

1958		1959		1960		1961		1962		1963		1964		1965		1966		1967	
M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X	M	X
	61.5		91.7		76.1		78.3		76.1		72.2		57.5		88.3		99.1		86.4
	108.8		127.8		157.9		150.2		180.8		200.6		188.9		216.9		189.8		239.0
	72.8		87.4		90.4		87.1		78.6		102.3		101.5		103.5		114.2		114.9
	34.8		37.7		34.5		35.0		34.9		30.3		24.8		26.8		25.7		34.5
	39.4		43.5		18.3		30.0		33.8		28.3		7.9		37.4		35.8		5.8
	317.3		388.1		377.2		380.6		404.2		433.7		380.6		472.9		464.6		480.6
38.4	7.1	42.4	10.0	41.3	6.9	43.2	12.2	42.4	11.8	36.0	17.4	42.5	12.4	35.8	19.5	36.3	15.8	26.9	14.0
3.0	0.9	3.6	3.3	3.3	3.6	4.2	5.9	18.4	7.8	19.2	9.0	11.8	6.3	20.3	8.5	25.6	9.5	22.2	8.6
7.7	4.7	8.5	7.1	9.7	6.8	7.9	7.1	6.1	10.4	7.7	13.6	8.0	12.6	6.8	12.4	7.6	11.8	6.1	12.9
2.0	0.6	2.4	2.6	2.7	1.7	2.5	0.7	3.6	3.0	4.6	3.8	4.5	3.4	4.5	3.1	7.8	2.4	6.3	1.9
5.5	-	8.0	-	1.2	-	2.0	-	5.6	-	11.2	0.2	2.4	0.4	2.2	0.2	2.6	0.4	2.4	0.4
56.6	13.3	64.9	23.0	58.2	19.0	59.8	25.9	76.1	33.0	78.7	44.0	69.2	35.1	69.6	43.4	79.9	39.9	63.9	37.8
43.3		41.9		39.2		33.9		43.1		34.7		34.1		26.2		40.0		26.1	
4.1	1.1	5.9	1.9	5.1	1.6	5.4	1.2	9.5	2.0	14.9	2.2	13.9	2.1	8.9	2.1	8.0	1.4	7.4	1.2
0.9	4.0	1.5	6.8	1.1	3.9	1.1	2.5	2.1	4.3	3.3	5.3	2.2	4.1	3.7	5.1	3.4	2.8	3.0	2.8
0.1	0.4	0.2	1.3	0.1	0.5	0.3	1.3	1.1	1.4	2.9	1.4	3.0	1.0	1.7	1.5	2.5	1.7	1.2	2.0
0.1	-	0.1	-	0.1	-	0.1	-	0.8	1.2	0.6	2.5	0.7	0.9	1.3	0.7	0.2	1.0	0.3	0.7
5.2	5.5	7.7	10.0	6.4	6.0	6.9	4.8	13.5	8.9	21.7	11.4	19.8	8.1	15.6	9.4	14.1	6.9	11.9	6.7
	0.3		2.3	0.4		2.1		3.6		10.3		11.7		6.2		7.2		5.2	
0.5	-	0.6	-	0.6	-	0.7	-	1.1	0.1	0.9	0.4	0.6	0.7	0.6	0.4	1.9	0.3	0.9	0.1
-	-	0.2	-	0.2	-	0.2	-	1.0	0.5	1.0	0.4	0.6	0.4	0.5	0.3	0.4	0.4	0.3	0.5
0.7	-	1.4	-	0.7	-	0.5	-	-	0.1	-	0.1	-	0.1	-	-	0.2	-	0.3	-
-	-	-	-	-	-	-	-	0.1	0.1	0.2	0.1	0.3	0.2	0.5	0.1	0.3	-	0.4	-
0.2	1.7	0.3	2.6	0.3	2.1	0.2	1.7	0.6	3.1	1.3	3.4	1.0	2.5	0.9	6.2	1.4	5.3	1.4	5.1
-	-	-	-	-	-	-	-	0.2	0.2	0.5	0.1	0.5	0.1	0.3	0.2	-	0.5	0.2	-
0.4	-	0.6	-	0.5	-	1.1	-	0.9	0.4	1.0	0.9	0.9	0.7	1.5	0.7	0.9	0.9	2.1	0.8
1.8	1.7	3.1	2.6	2.3	2.1	2.7	1.7	3.9	4.5	4.9	5.4	3.9	4.7	4.3	7.9	5.1	7.4	5.6	6.5
0.1		0.5		0.2		1.0			0.6		0.5		0.7		3.6		2.3		0.9
63.6	337.8		423.7		404.3		413.0		450.6		494.5		428.5		533.6		518.8		531.6
	274.2	75.7	348.0	66.9	337.4	69.4	343.6	93.5	357.1	105.3	389.2	92.9	335.6	89.2	444.1	99.1	419.7	81.4	450.2

## IV. SUPPLY STOCKS AND WOOL AVAILABLE FOR MILL CONSUMPTION

Wool production in the 21 country group, less exports to, plus imports from, countries outside the group, plus wool released from or absorbed by official stockpiles and grower carryovers, gives the amount of wool available for mill consumption in the group. These figures are graphed in the top half of Figure 4 based on the data given in Table IV. Wool supplies available have fluctuated very markedly mainly due to the fluctuations in net releases from supply stocks. The major reason for these latter fluctuations, in recent years, has been the continual cyclical movement in carry-over stocks in South America, and latterly in New Zealand.

Figure 4 also shows the levels of mill consumption in the 21 country group. There is apparent in the diagram a high degree of concordance year by year between the amount of wool available for consumption and the amount consumed due to the elasticity imparted to supply by the absorption and release of wool from supply stocks. Without this it is likely that price fluctuations, induced by the confrontation of fluctuating mill consumption with steady wool production, would be much greater than they already are.

The residual difference between supplies of wool available for consumption with amounts actually consumed should in theory represent the annual changes in commercial stocks. This would be true if all statistical series had been measured without any errors; or, if the errors were

FIGURE 4

STOCK CHANGES AND WOOL AVAILABLE FOR CONSUMPTION IN 21 COUNTRIES

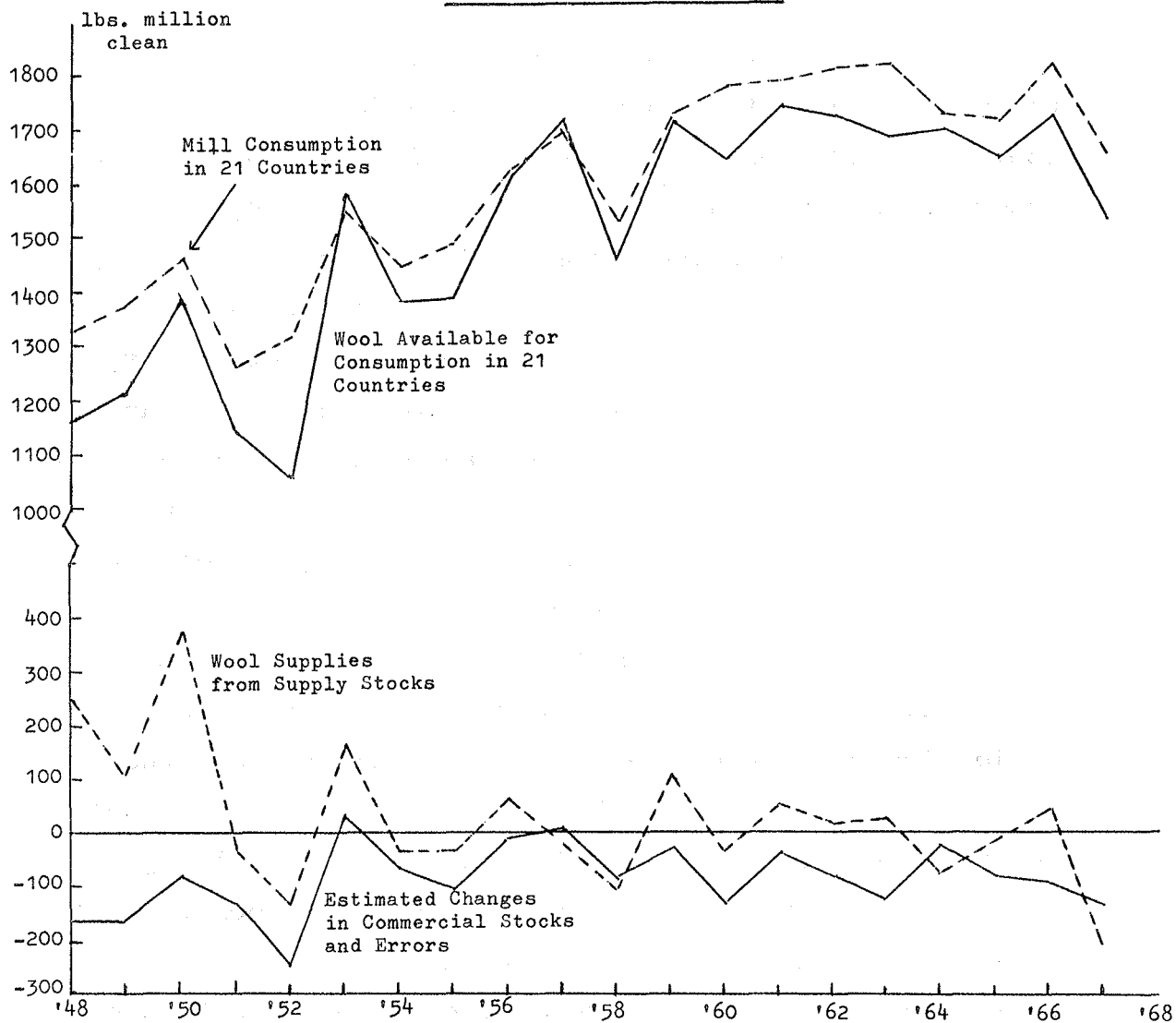


TABLE IV : AVAILABLE SUPPLIES OF WOOL (PRODUCTION PLUS  
SUPPLY STOCKS AND CARRYOVERS)

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
1. Production in 21 Countries	1385	1415	1489	1520	1525	1657	1629	1662	1768	1916	1834	1949	2014	2034	2064	2048	2108	2103	2100	2186
2. Net Exports to USA & Other	480	315	475	350	331	238	215	242	226	185	274	348	337	344	357	389	336	444	420	450
3. Production less Exports	905	1100	1014	1170	1194	1419	1414	1420	1542	1731	1560	1601	1677	1690	1707	1659	1772	1659	1680	1736
4. Net Releases from (+) or additions to (-) supply stocks (Details given below)	257	113	377	-30	-129	165	-31	-28	67	-13	-105	115	-28	54	22	29	-69	-10	+46	-211
5. Wool Available for Consumption	1162	1213	1391	1140	1065	1584	1383	1392	1609	1718	1455	1716	1649	1744	1729	1688	1703	1649	1726	1525
6. Mill Consumption	1326	1377	1471	1265	1319	1549	1446	1490	1622	1705	1534	1735	1782	1788	1810	1812	1729	1724	1820	1661
7. Difference equals errors in Est'n + Changes in Commercial stocks	-164	-164	-80	-125	-254	35	-63	-98	-13	13	-79	-19	-133	-44	-81	-124	-26	-75	-94	-136
<u>Composition of Changes in Supply Stocks</u>																				
<u>Releases from or Additions to Carryovers in:</u>																				
	(+)	(-)																		
Australia	6	-13	11	-3	4	-1	-	-2	-	-5	-4	-	-12	-5	+2	+5	-9	-12	+15	+6
New Zealand	3	-2	-	-67	64	2	-	2	1	1	-5	5	-8	+1	+1	+1	-3	-8	+4	+4
South Africa	-	-	-	-3	3	-1	-	1	-	-1	-	-	-	-	-	-	-1	-1	+1	-
Argentina & Uruguay	15	-145	145	-35	-160	212	-27	-30	63	-21	-92	105	-40	44	-	+9	-55	+11	+25	-50
<u>Total</u>	24	-160	156	-108	-89	212	-27	-29	64	-26	-101	110	-60	40	3	+15	-68	-10	+45	-40
<u>Releases from(+) or Additions to(-) Stockpiles</u>																				
Joint Organisation Stocks	233	272	220	80	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.K. Stockpiles (BWMB & Strategic)	-	1	1	-2	-44	-47	-4	1	3	13	14	2	16	14	19	14	-1	+1	-	-7
NZ Wool Commission	-	-	-	-	-	-	-	-	-	-	-11	-	11	-	-	-	-	-	-	-161
Sth.Afr.Wool Comm.	-	-	-	-	-	-	-	-	-	-	-7	3	4	-	-	-	-	-1	+1	-3
<u>Total</u>	233	273	221	78	-40	-47	-4	1	3	13	-4	5	31	14	19	14	-1	0	+1	-171
<u>Total Wool Available from(+) or absorbed by(-) (Carry Overs &amp; Stockpiles)</u>																				
	257	113	377	-30	-129	165	-31	-28	67	-13	-105	115	-28	54	22	29	-69	-10	+46	-211

consistent, such as would occur if the clean yields used were consistently too high or low. We are certainly not entitled to make this assumption and the difference between supplies and consumption represents the combined effect of errors and changes in commercial stocks.

## V. MILL CONSUMPTION OF RAW WOOL

Figure 5 gives the statistics of mill consumption of raw wool in the five wool producers, the U.S.A., the sixteen wool textile producers and the twenty-one and twenty-two country groups.

The marked cyclical fluctuation which characterised mill consumption for most of the period, and which is responsible for fluctuations in prices, seemed to have become much less marked between 1959 and 1963, but appears to be once again evidencing itself.

Table V gives the mill consumption statistics for individual countries.

FIGURE 5

MILL CONSUMPTION OF RAW WOOL

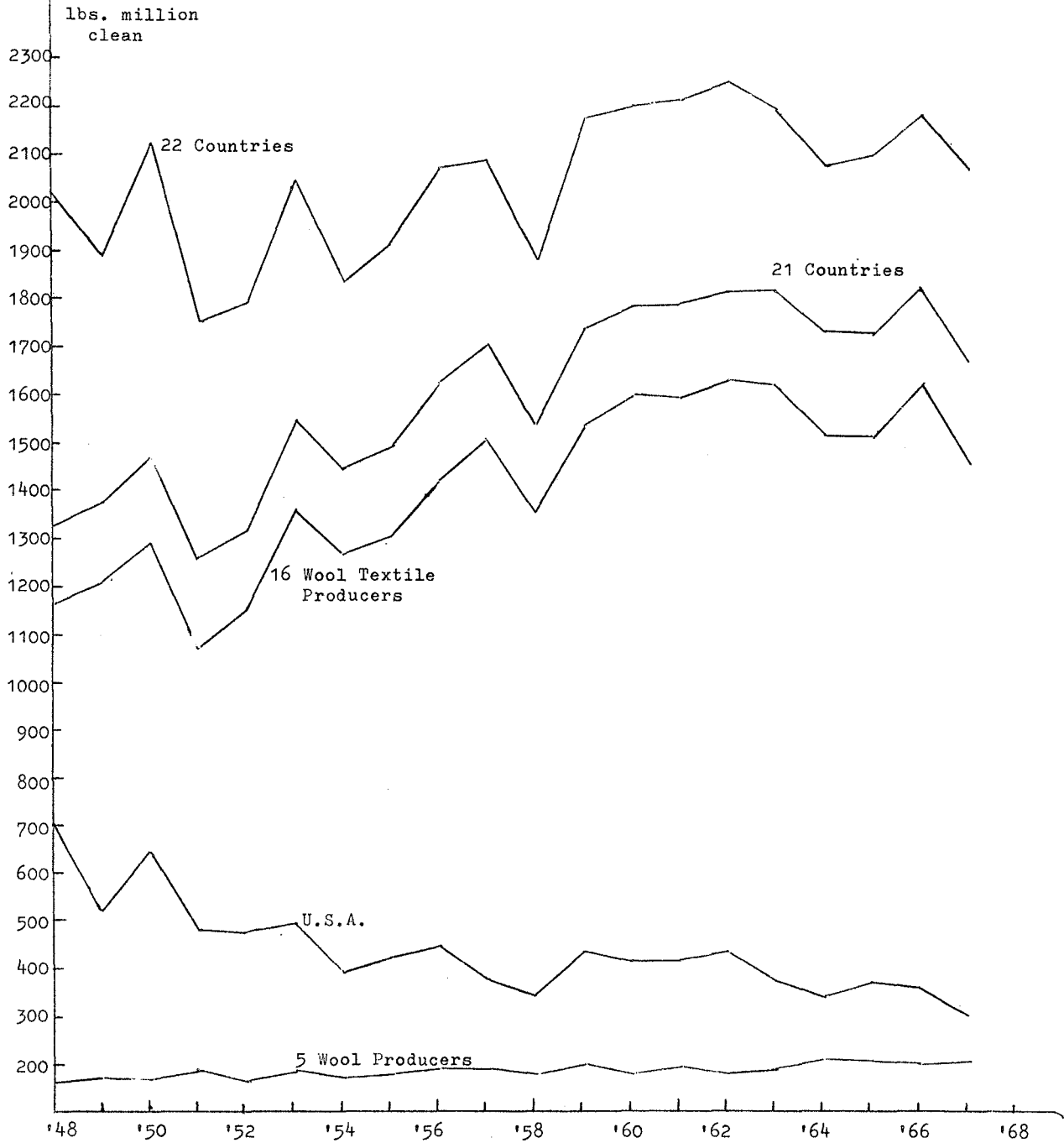


TABLE V : MILL CONSUMPTION OF RAW WOOL (m.lbs)

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
																				Provisional
Argentina	60	70	80	91	74	73	61	68	61	77	62	58	43	54	35	30	53	52	46	47
Australia	77	71	61	58	41	57	55	56	65	70	63	73	74	65	73	82	77	78	72	76
New Zealand	8	7	10	9	7	9	9	9	8	8	8	8	11	11	12	12	11	14	16	16
South Africa	10	12	10	15	18	17	17	15	18	17	17	24	21	21	21	24	26	28	25	28
Uruguay	8	10	11	17	30	37	35	39	47	26	32	41	37	44	41	46	49	40	48	44
Total: 5 Wool Producers	163	170	172	190	170	193	177	187	199	198	182	204	186	195	182	194	216	212	207	211
U.K.	483	492	518	397	379	488	462	475	475	481	444	509	481	472	448	458	418	403	388	360
Belgium	67	71	73	55	57	75	63	65	78	80	70	78	86	84	100	95	95	98	96	81
France	256	262	244	198	214	251	254	243	275	299	266	267	280	278	291	295	245	237	263	217
Italy	136	119	126	97	126	140	119	113	124	161	156	178	214	185	205	196	185	189	242	218
Japan	8	13	51	80	123	124	109	121	171	188	161	226	269	311	320	302	310	326	367	354
Total: 5 Wool Text. Exprs.	950	957	1012	827	899	1078	1007	1017	1123	1209	1097	1258	1330	1330	1364	1346	1253	1253	1356	1230
W. Germany	47	91	128	117	132	156	152	168	177	181	152	157	152	151	148	153	142	147	150	122
Netherlands	40	40	37	24	26	24	25	26	28	26	21	25	22	22	22	22	22	21	22	20
Canada	40	34	32	29	27	25	18	22	22	18	16	20	19	19	18	18	17	18	18	14
Sweden	28	25	23	15	13	13	11	12	11	10	11	11	12	10	10	10	11	10	10	9
Total: 4 Wool Textile Importers	155	190	220	185	198	218	206	228	238	235	200	213	205	202	198	203	192	196	200	165
Austria	6	9	10	11	9	11	12	12	14	14	10	10	11	11	14	15	16	13	14	10
Denmark	8	8	9	8	6	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5
Finland	5	6	7	6	5	5	5	7	7	7	7	7	5	5	5	5	3	3	3	3
Ireland	5	4	4	4	4	7	7	7	7	9	9	9	10	10	10	11	12	11	9	10
Norway	11	11	11	9	7	8	7	7	8	7	6	9	11	11	11	12	12	10	8	8
Switzerland	16	13	16	13	10	12	10	10	12	12	9	11	10	10	11	11	10	11	8	9
Greece	7	9	10	12	11	12	10	11	10	10	10	10	10	10	10	10	10	10	10	10
Total: 7 Western Europe	58	60	67	63	52	60	56	58	62	63	55	60	61	61	66	69	68	63	57	55
Total: 21 Countries	1326	1377	1471	1265	1319	1549	1446	1490	1622	1705	1534	1735	1782	1788	1810	1812	1729	1724	1820	1661
U.S.A.	705	511	647	489	472	496	391	426	448	380	344	437	413	415	436	379	346	374	360	303
Total: 22 Countries	2031	1888	2118	1754	1791	2045	1837	1916	2070	2085	1878	2172	2195	2203	2246	2191	2075	2098	2180	1964

## VI. MILL CONSUMPTION OF FIBRES OTHER THAN VIRGIN WOOL

Figure 6 shows the mill consumption of fibres other than virgin wool for the sixteen textile producers and for the 21 and 22 country groups.

These fibres include noils, wastes, broken tops, recovered and re-used wool, shoddy, synthetic fibres, hair, cotton and silk. The data for individual countries is shown in Table VI. Wool yarn production has been deducted from total yarn production to obtain mill consumption of other fibres.

Of greater significance than the absolute level of non wool fibres used is the ratio of wool to total fibres used in the wool textile industry. Trends in this ratio are shown in Figure 7.

Very noticeable is the marked fall in the proportion of wool following the high wool prices of 1963/64 and the partial reversal of the ratio in the 21 country group, possibly influenced by the lower wool prices since then. The decline in the wool ratio in the U.S.A. shows some signs of levelling off after the almost continued fall since the early fifties.

Trends in total fibres consumed in the wool textile industry - a measure of the total activity of the industry are shown in Figure 8 and Table VII. This shows the severity of the decline in wool textile activity in 1967, paralleled only by a similar recession in 1958.

FIGURE 6                      MILL CONSUMPTION OF FIBRES  
OTHER THAN VIRGIN WOOL

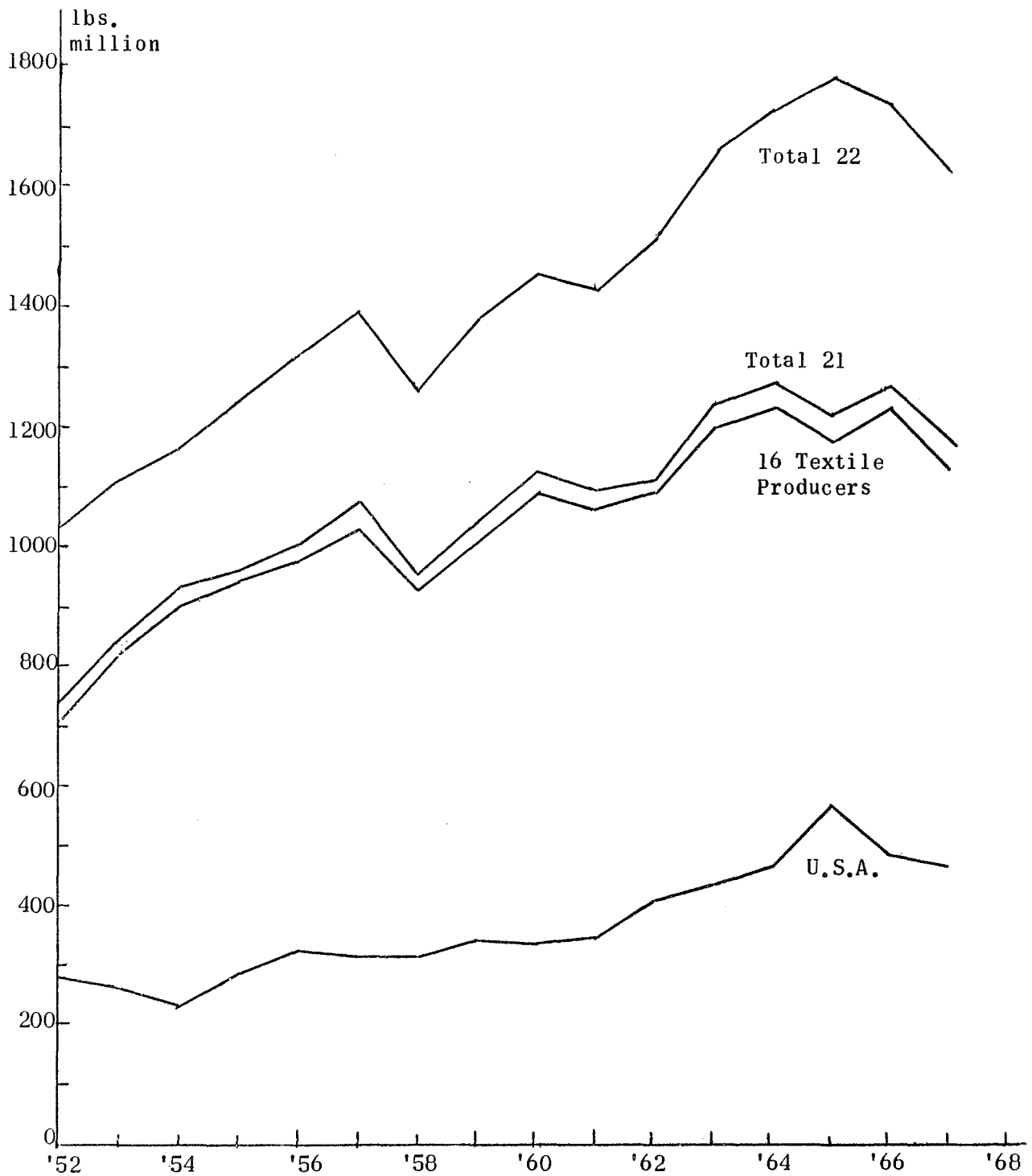


TABLE VI : MILL CONSUMPTION OF FIBRES OTHER THAN VIRGIN WOOL  
(million lbs. clean wool equivalent)

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
Argentina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia	12	5	7	3	8	19	9	12	17	8	12	26	25	25	24	25
New Zealand	-	-	-	-	-	-	-	-	2	2	2	3	3	3	4	4
South Africa	20	21	22	17	21	20	15	19	18	14	12	11	12	13	11	12
Uruguay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Total: 5 Producers</u>	32	26	29	20	29	39	24	31	37	23	26	40	40	41	39	41
U.K.	158	192	205	204	197	211	189	218	229	208	213	242	264	258	260	250
Belgium	13	21	25	29	29	33	27	29	26	29	30	38	41	40	43	37
France	113	115	135	139	151	160	153	157	171	186	192	224	236	214	248	208
Italy	138	154	191	178	192	220	201	246	296	294	295	307	288	269	360	349
Japan	89	104	112	128	132	130	111	114	115	102	117	129	136	145	84	78
<u>Total: 5 W.T. Exporters</u>	510	585	669	678	708	754	682	763	837	820	848	939	966	926	995	922
W. Germany	97	115	118	138	139	152	132	126	125	127	126	137	145	129	117	103
Netherlands	19	23	24	24	23	24	25	28	28	28	29	31	30	27	22	17
Canada	33	33	24	29	33	31	30	32	33	26	24	25	26	26	26	26
Sweden	18	22	21	21	21	23	20	19	20	18	19	20	21	19	20	22
<u>Total: 4 W.T. Importers</u>	167	192	187	213	217	231	207	204	206	199	197	213	221	201	185	168
Austria	11	9	10	9	9	9	8	8	8	9	8	9	6	9	10	5
Denmark	4	7	6	5	6	8	6	8	8	7	6	7	7	7	7	7
Finland	4	7	7	5	9	8	7	8	7	7	6	7	7	7	6	6
Greece	4	3	2	8	6	2	-	-	3	5	3	4	4	4	4	4
Ireland	-	4	4	5	6	3	3	2	2	3	4	3	3	3	3	3
Norway	5	6	5	6	7	8	7	7	4	4	4	4	4	4	4	4
Switzerland	7	8	8	8	8	8	7	8	9	10	11	12	12	16	16	15
<u>Total: 7 W. Europe</u>	35	43	43	47	49	45	39	41	41	45	42	46	45	50	50	44
<u>Total: 21</u>	744	846	928	958	1003	1069	952	1039	1121	1087	1113	1238	1272	1218	1269	1175
<u>U.S.A.</u>	286	262	232	285	321	313	312	339	331	342	402	432	462	565	476	456
<u>Total: 22</u>	1030	1108	1160	1243	1324	1382	1264	1378	1452	1429	1515	1666	1728	1783	1745	1631

FIGURE 7

PROPORTION OF WOOL IN FIBRES CONSUMED  
IN TEXTILE INDUSTRY

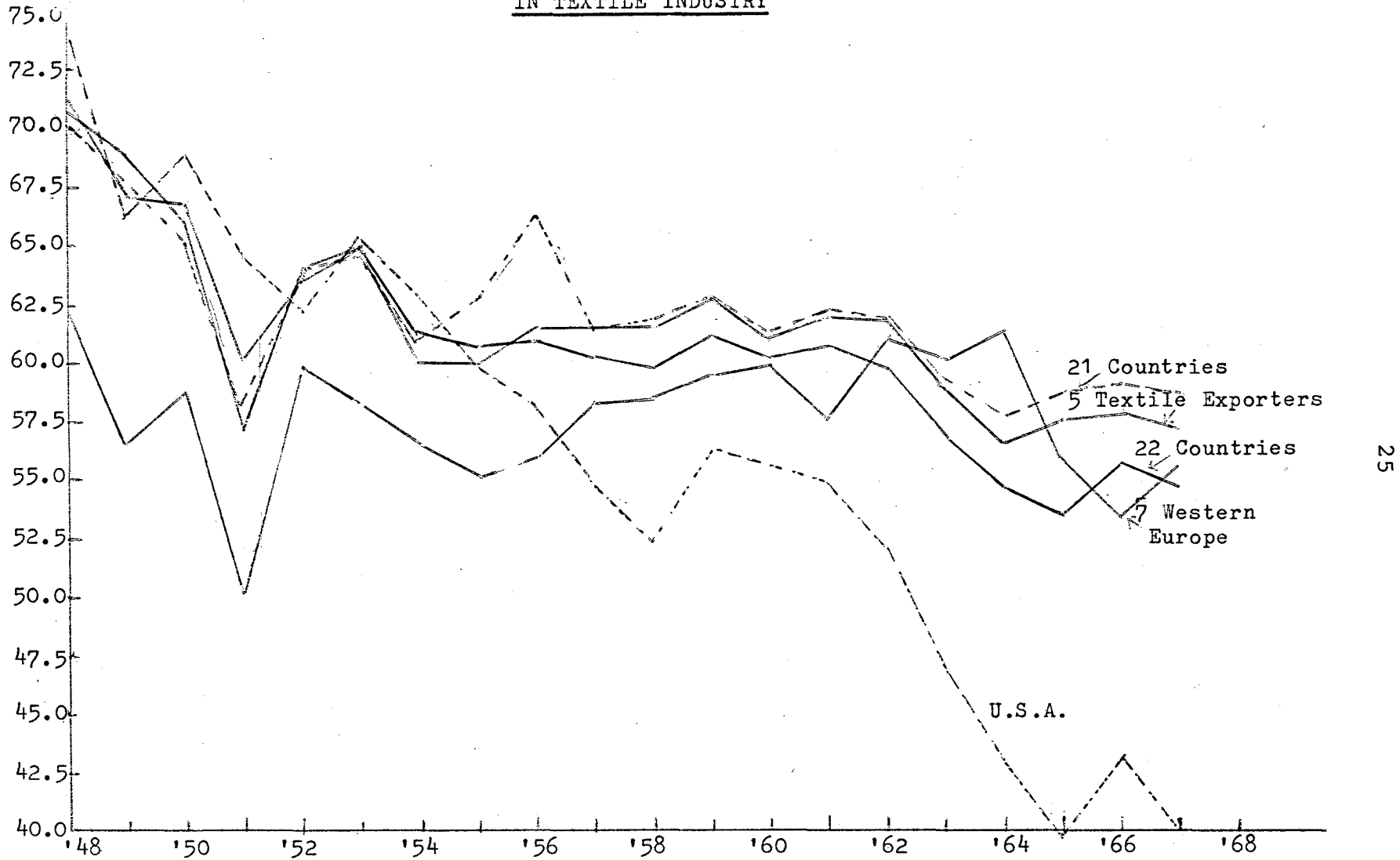
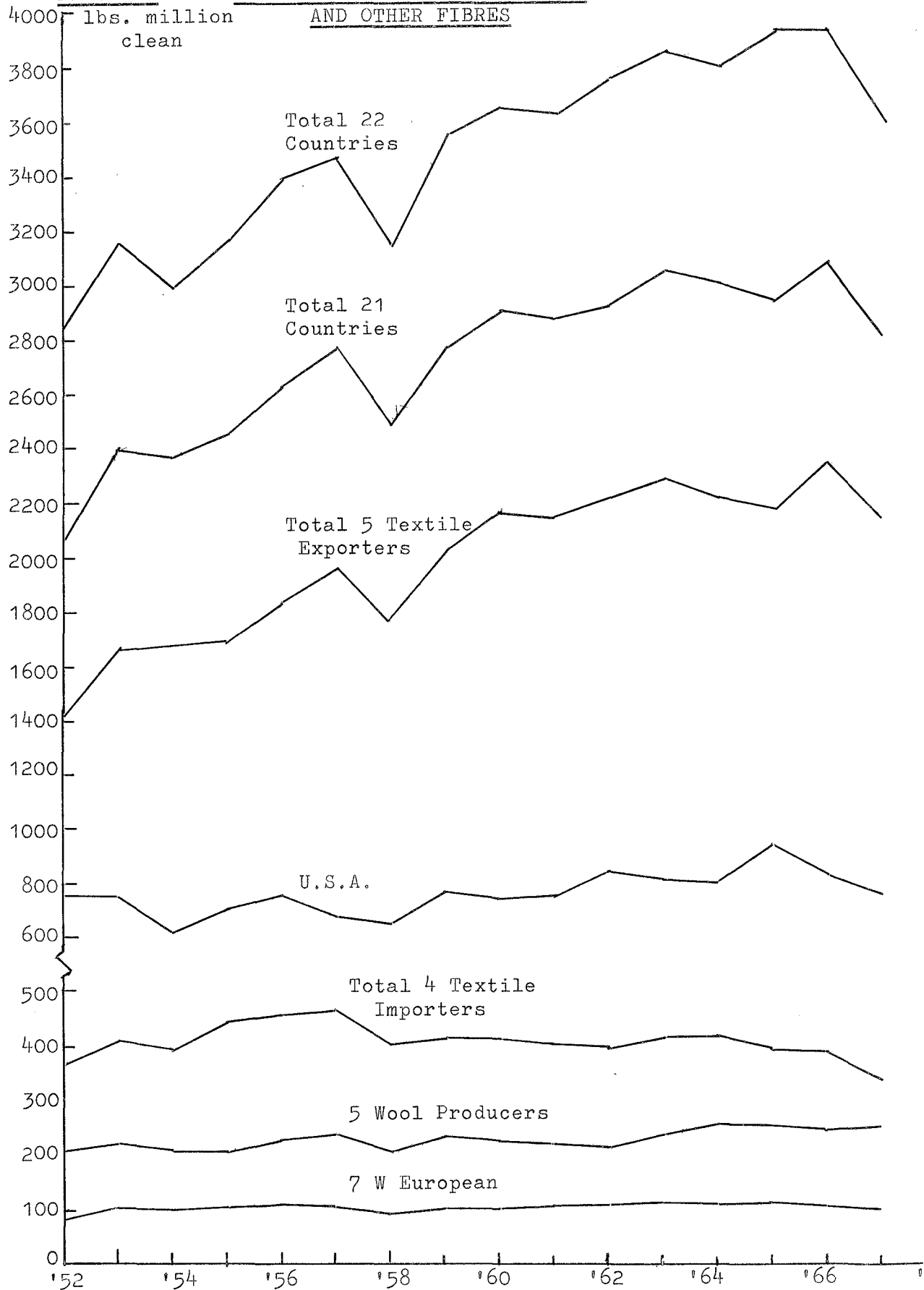


TABLE VII : MILL CONSUMPTION OF RAW WOOL AND OTHER FIBRES

	<u>1952</u>	<u>1953</u>	<u>1964</u>	<u>1955</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>
Argentina	74	73	61	68	61	77	62	58	43	54	35	30	53	52	46	47
Australia	53	62	62	59	69	89	72	85	91	73	85	108	102	103	96	101
New Zealand	7	9	9	9	8	8	8	8	13	13	14	15	14	17	20	20
South Africa	38	38	39	32	39	37	32	43	39	35	33	35	38	41	36	40
Uruguay	30	37	35	39	47	26	32	41	37	44	41	46	49	40	48	44
<u>Total: 5 Producers</u>	<u>202</u>	<u>219</u>	<u>206</u>	<u>207</u>	<u>228</u>	<u>237</u>	<u>206</u>	<u>235</u>	<u>223</u>	<u>218</u>	<u>208</u>	<u>234</u>	<u>256</u>	<u>253</u>	<u>246</u>	<u>252</u>
U.K.	537	680	667	679	672	692	633	727	710	680	661	700	682	661	648	610
Belgium	70	96	88	94	107	113	103	105	112	113	130	133	136	138	139	118
France	327	366	389	382	426	459	419	424	451	464	483	519	481	451	511	425
Italy	264	294	310	291	316	381	357	424	510	479	500	503	473	458	602	567
Japan	212	228	221	249	303	318	272	340	384	413	437	431	446	471	451	432
<u>Total: 5 W.T. Exporters</u>	<u>1409</u>	<u>1663</u>	<u>1676</u>	<u>1695</u>	<u>1831</u>	<u>1963</u>	<u>1779</u>	<u>2021</u>	<u>2167</u>	<u>2150</u>	<u>2211</u>	<u>2286</u>	<u>2219</u>	<u>2179</u>	<u>2351</u>	<u>2152</u>
W. Germany	229	271	270	306	316	333	284	283	277	278	274	290	287	276	267	225
Netherlands	45	47	49	50	51	50	46	53	50	50	51	53	52	48	44	37
Canada	60	58	42	51	55	49	46	52	52	45	42	43	43	44	44	40
Sweden	31	35	32	33	32	33	31	30	32	28	29	30	32	29	30	31
<u>Total: 4 W.T. Importers</u>	<u>365</u>	<u>410</u>	<u>393</u>	<u>441</u>	<u>455</u>	<u>466</u>	<u>407</u>	<u>417</u>	<u>411</u>	<u>401</u>	<u>396</u>	<u>416</u>	<u>414</u>	<u>397</u>	<u>385</u>	<u>333</u>
Austria	20	20	22	21	23	23	18	18	19	20	22	24	22	22	24	15
Denmark	10	12	11	9	10	12	10	12	12	11	11	12	12	12	12	12
Finland	9	12	12	9	16	15	14	15	12	12	11	12	10	10	9	9
Ireland	4	11	11	12	13	12	12	11	12	13	14	14	15	14	12	13
Norway	12	14	12	13	15	15	13	16	15	15	15	16	16	14	12	12
Greece	15	15	12	19	16	12	10	10	13	15	13	14	14	14	14	14
Switzerland	17	20	18	18	20	20	16	19	19	20	22	23	22	27	24	24
<u>Total: 7 W. Europe</u>	<u>87</u>	<u>103</u>	<u>99</u>	<u>105</u>	<u>111</u>	<u>108</u>	<u>94</u>	<u>101</u>	<u>102</u>	<u>106</u>	<u>108</u>	<u>115</u>	<u>111</u>	<u>113</u>	<u>107</u>	<u>99</u>
<u>Total: 21</u>	<u>2063</u>	<u>2395</u>	<u>2374</u>	<u>2448</u>	<u>2625</u>	<u>2774</u>	<u>2486</u>	<u>2774</u>	<u>2903</u>	<u>2875</u>	<u>2923</u>	<u>3051</u>	<u>3001</u>	<u>2942</u>	<u>3089</u>	<u>2836</u>
<u>U.S.A.</u>	<u>758</u>	<u>758</u>	<u>623</u>	<u>711</u>	<u>769</u>	<u>693</u>	<u>656</u>	<u>776</u>	<u>744</u>	<u>757</u>	<u>838</u>	<u>811</u>	<u>808</u>	<u>940</u>	<u>836</u>	<u>759</u>
<u>Total: 22</u>	<u>2821</u>	<u>3153</u>	<u>2997</u>	<u>3159</u>	<u>3394</u>	<u>3467</u>	<u>3142</u>	<u>3550</u>	<u>3647</u>	<u>3632</u>	<u>3761</u>	<u>3858</u>	<u>3801</u>	<u>3926</u>	<u>3925</u>	<u>3595</u>

FIGURE 8 MILL CONSUMPTION OF RAW WOOL  
AND OTHER FIBRES



## VII. NET TRADE OF WOOL-TYPE TEXTILES

Of the wool and other fibres consumed at mill level in the 21 Country Group, a proportion is shipped throughout the world as exports of textiles both to countries within and without the group. Table VIII shows the net exports (shown as negative quantities) and net imports of each country, the total net exports of the 21 countries, the net imports of the U.S.A. from the 21 Country Group, and Other Countries, and the net exports of 22 countries. All these trade flows are measured in lb. of fibre content by converting Wool Intelligence data with F.A.O. conversion factors.\* Figure 9 shows the main trends for the respective groups.

The rate of increase in net exports of wool textiles by 21 Country Group is similar in nature to the fast rate of increase in net exports of raw wool to countries outside the group, though in both cases there has been a marked decline in recent years.

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\* F.A.O. Per Caput Fibre Consumption Levels, 1948-58.  
Commodity Bulletin Series - 31.

FIGURE 9    NET TRADE IN WOOL TEXTILES BY GROUPS

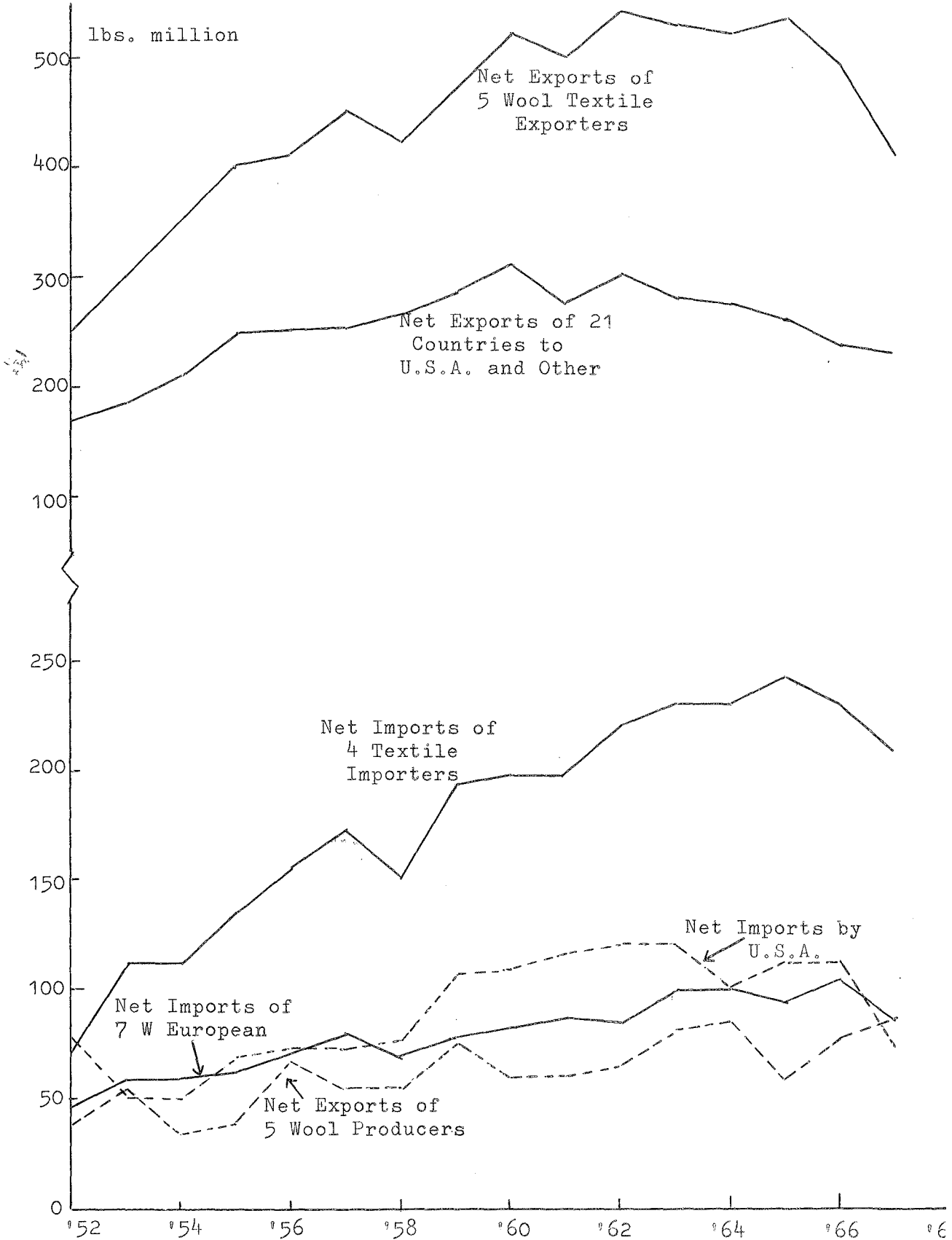


TABLE VIII : NET TRADE BY COUNTRIES FOR ALL WOOL TEXTILES  
(million lbs. fibre content)

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
Argentina	-10.81	- 7.90	- 7.11	-10.56	-11.47	- 7.51	- 9.20	- 8.27	- 4.19	- 8.17	-16.57	-20.03	-18.09	-12.98	-12.01	-15.35
Australia	-15.07	-23.09	-14.49	-14.12	-25.00	-37.64	-25.55	-35.08	-34.45	-23.84	-27.18	-29.52	-34.42	-23.22	-28.66	-27.02
New Zealand	6.84	4.43	8.06	8.69	6.32	7.61	7.74	4.73	5.73	6.11	4.74	4.29	5.26	5.70	5.73	4.05
South Africa	0.34	4.44	5.25	3.60	1.85	- 0.12	- 1.05	- 6.41	- 2.53	- 2.31	1.97	- 1.54	0.81	- 1.60	- 6.59	-10.19
Uruguay	-18.77	-32.65	-24.96	-28.11	-39.70	-18.73	-27.53	-31.68	-26.30	-30.34	-28.79	-35.03	-38.53	-29.57	-35.96	-39.02
<b>Total: 5 Producers</b>	<b>-37.46</b>	<b>-54.77</b>	<b>-33.25</b>	<b>-40.50</b>	<b>-68.00</b>	<b>-56.39</b>	<b>-55.59</b>	<b>-76.71</b>	<b>-61.74</b>	<b>-58.55</b>	<b>-65.83</b>	<b>-81.83</b>	<b>-84.97</b>	<b>-61.67</b>	<b>-77.49</b>	<b>-87.53</b>
U.K.	-163.13	-188.05	-184.40	-194.69	-205.06	-204.48	-188.62	-210.01	-209.90	-194.58	-166.17	-191.77	-168.05	-154.58	-139.14	-108.24
Belgium	-15.77	- 29.24	- 23.64	- 30.57	- 35.90	- 32.22	- 31.93	- 40.63	- 44.98	- 49.46	- 69.55	- 68.06	- 66.12	- 67.01	- 55.33	- 48.46
France	- 69.36	- 79.56	- 92.77	-101.85	- 96.08	-107.00	-104.43	-126.80	-140.79	-141.22	-138.60	-118.17	-102.79	-114.86	-111.73	-101.77
Italy	- 13.00	- 33.41	- 46.11	- 70.16	- 88.30	-106.61	- 94.51	- 80.84	- 92.56	- 98.21	-110.18	-103.75	-112.31	-127.74	-124.05	-106.82
Japan	10.07	27.68	- 4.38	- 7.70	14.24	1.55	- 9.09	-12.50	- 32.11	- 17.53	- 56.73	- 45.39	- 72.11	- 71.39	- 63.90	- 47.20
<b>Total: 5 W.T. Exprs.</b>	<b>-251.19</b>	<b>-302.58</b>	<b>-351.30</b>	<b>-404.97</b>	<b>-411.10</b>	<b>-448.76</b>	<b>-428.58</b>	<b>-470.78</b>	<b>-520.34</b>	<b>-501.00</b>	<b>-541.23</b>	<b>-527.14</b>	<b>-521.38</b>	<b>-535.58</b>	<b>-494.15</b>	<b>-412.49</b>
West Germany	31.37	45.69	51.55	69.81	79.65	106.56	91.49	110.97	120.77	123.83	135.75	132.86	135.96	152.39	139.63	104.98
Netherlands	11.28	21.11	26.49	28.80	36.03	34.94	26.61	34.15	27.71	33.25	35.06	41.04	39.24	33.89	38.60	24.83
Canada	22.08	32.79	23.96	27.82	32.04	22.75	23.86	23.18	24.94	26.04	31.05	33.18	33.65	33.28	31.47	30.39
Sweden	7.45	13.45	10.02	9.40	7.47	8.73	8.37	17.03	18.66	15.03	17.77	24.67	22.52	22.71	21.94	23.03
<b>Total: 4 W.T. Impr.</b>	<b>72.18</b>	<b>113.04</b>	<b>112.02</b>	<b>135.83</b>	<b>155.19</b>	<b>172.98</b>	<b>150.33</b>	<b>185.33</b>	<b>192.08</b>	<b>198.15</b>	<b>219.63</b>	<b>231.75</b>	<b>231.37</b>	<b>242.27</b>	<b>231.64</b>	<b>183.23</b>
Austria	4.28	6.88	5.15	8.46	8.58	10.63	10.06	15.10	16.11	17.81	15.26	19.11	18.54	16.92	17.69	16.10
Denmark	14.21	17.60	17.30	15.80	16.01	17.70	14.81	17.01	15.95	17.39	19.77	21.09	20.69	23.01	22.26	20.27
Finland	8.35	6.21	8.04	9.94	11.18	8.01	5.88	7.20	6.56	10.81	10.61	12.25	13.27	11.36	14.21	14.25
Ireland	2.61	4.59	3.00	2.45	2.58	1.16	2.29	2.84	4.47	2.96	4.14	4.27	5.82	4.00	3.63	3.85
Norway	7.81	9.99	9.30	8.57	9.99	10.15	7.57	6.48	7.10	6.84	6.71	7.94	7.29	6.07	7.83	8.35
Switzerland	7.15	11.81	14.07	14.84	17.82	22.31	16.12	18.42	17.12	18.72	16.22	19.93	21.04	18.13	20.93	20.40
Greece	0.97	1.07	2.26	2.25	5.27	9.09	11.32	10.01	14.83	12.07	11.41	13.60	12.12	15.34	17.92	2.79
<b>Total: 7 W. Europe</b>	<b>45.38</b>	<b>58.15</b>	<b>59.12</b>	<b>62.31</b>	<b>71.43</b>	<b>79.05</b>	<b>68.05</b>	<b>77.06</b>	<b>82.14</b>	<b>86.60</b>	<b>84.12</b>	<b>98.19</b>	<b>98.77</b>	<b>94.83</b>	<b>104.47</b>	<b>86.01</b>
<b>Total: 21</b>	<b>-171.09</b>	<b>-186.16</b>	<b>-213.41</b>	<b>-247.33</b>	<b>-252.48</b>	<b>-253.12</b>	<b>-265.79</b>	<b>-285.10</b>	<b>-307.88</b>	<b>-274.80</b>	<b>-303.31</b>	<b>-279.03</b>	<b>-276.21</b>	<b>-260.15</b>	<b>-235.53</b>	<b>-230.78</b>
U.S.A.	78.89	51.75	50.25	68.60	74.73	70.54	75.99	105.73	108.03	115.48	120.91	120.07	101.94	113.18	114.70	74.71
<b>Total: 22</b>	<b>- 92.20</b>	<b>-134.41</b>	<b>-163.16</b>	<b>-178.73</b>	<b>-177.75</b>	<b>-182.58</b>	<b>-189.80</b>	<b>-179.37</b>	<b>-199.83</b>	<b>-159.32</b>	<b>-182.40</b>	<b>-158.96</b>	<b>-174.27</b>	<b>-146.97</b>	<b>-120.83</b>	<b>-156.07</b>

30

## VIII. WOOL-TYPE TEXTILES AVAILABLE FOR CONSUMPTION

After allowing for net trade in wool-type textiles, the balance represents the quantity available for domestic consumption.

These figures, given in Table IX, are graphed in Figure 10.

The appearance of cyclical fluctuation in the figures, while representing to some extent similar changes in consumer demand, must be interpreted with care. The figures only represent amounts available for consumption. Adjustment for inventory changes (on which we have no data) would need to be made before the figures could be taken as a measure of annual consumption, though they provide a valid representation of general trends.

The marked fall in wool textiles available for consumption (and therefore presumably in consumption itself) in 1967 is apparent in all countries as an underlying feature of the 1967/68 recession.

FIGURE 10 TOTAL FIBRE CONTENT OF WOOL  
TEXTILES AVAILABLE FOR CONSUMPTION

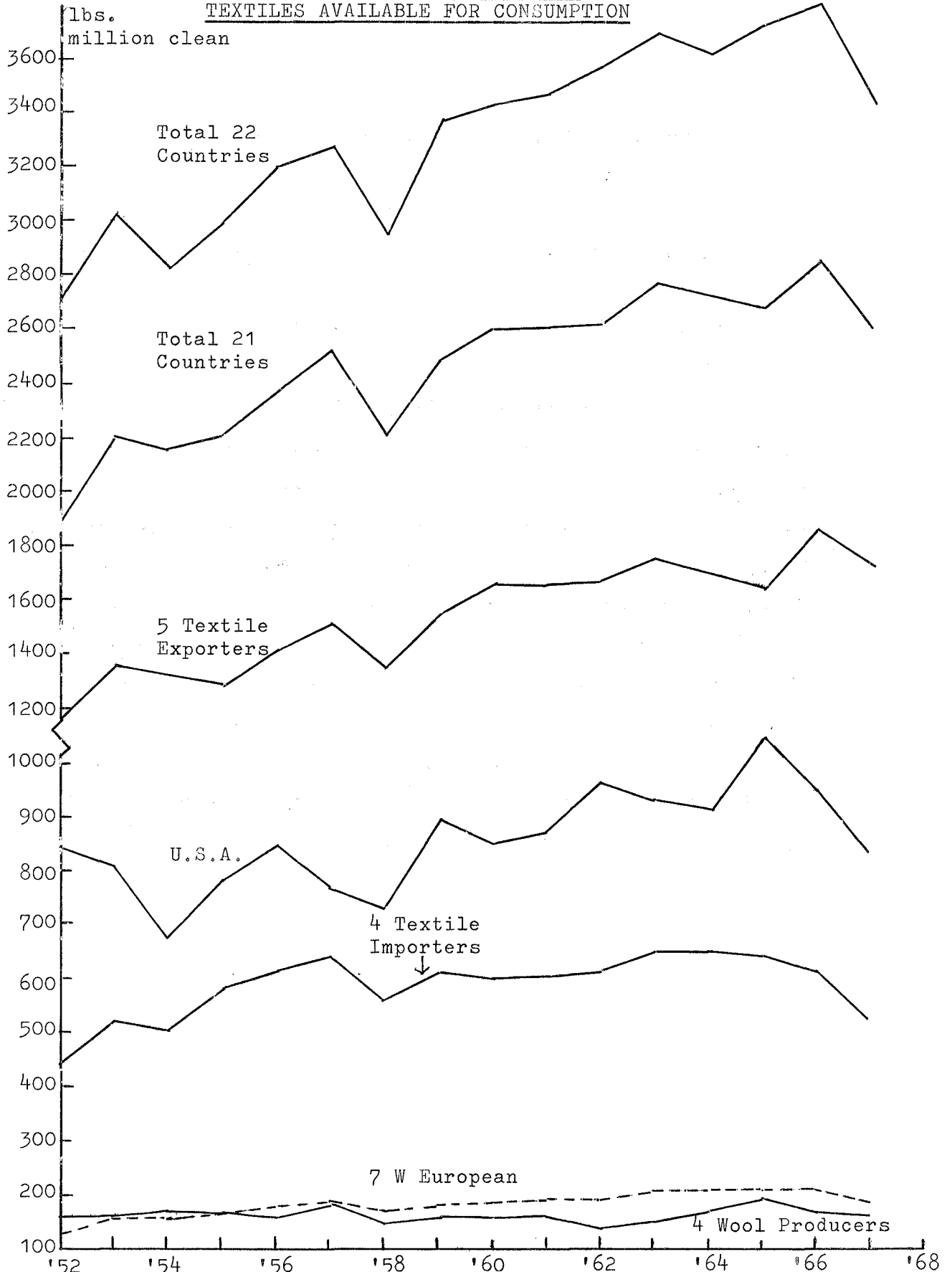


TABLE IX : WOOL TEXTILES INCLUDING OTHER FIBRES AVAILABLE FOR CONSUMPTION  
(million lbs. fibre content)

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
Argentina	63.19	65.10	53.89	57.44	49.53	69.49	52.80	49.73	38.81	45.83	18.43	9.97	34.91	39.02	33.99	31.65
Australia	37.93	38.91	47.51	44.88	44.00	51.36	46.45	49.92	56.55	49.16	57.82	78.48	67.58	79.78	67.34	73.98
New Zealand	13.85	13.43	17.06	17.69	14.32	15.61	15.74	12.73	18.73	19.11	18.74	19.29	19.26	22.70	25.73	24.05
South Africa	38.34	42.44	44.25	35.60	40.85	36.88	30.95	36.59	36.47	32.69	34.97	33.46	38.81	39.40	29.41	29.81
Uruquay	11.23	4.35	10.04	10.89	7.30	7.27	4.47	9.32	10.70	13.66	12.21	10.97	10.47	10.43	12.04	4.98
<b>Total: 5 Producers</b>	<b>164.54</b>	<b>164.23</b>	<b>172.75</b>	<b>166.50</b>	<b>160.00</b>	<b>180.61</b>	<b>150.41</b>	<b>158.29</b>	<b>161.26</b>	<b>159.45</b>	<b>142.17</b>	<b>152.17</b>	<b>171.03</b>	<b>191.33</b>	<b>168.51</b>	<b>164.47</b>
U.K.	373.87	491.95	482.60	484.31	466.94	487.52	444.38	516.99	500.10	485.42	494.83	508.23	513.95	506.42	508.86	501.76
Belgium	54.23	66.76	64.36	63.43	71.10	80.78	71.07	64.37	67.02	63.54	60.45	64.94	70.88	70.99	83.67	69.54
France	257.64	286.44	296.23	280.15	329.92	350.00	314.57	297.20	310.21	322.78	344.40	400.83	378.21	336.14	399.27	323.23
Italy	251.00	260.59	263.89	220.84	227.70	274.39	262.49	343.16	417.44	380.79	389.82	399.25	360.69	330.26	477.95	460.18
Japan	222.07	255.68	216.62	241.30	288.76	316.45	262.91	327.50	351.89	395.47	380.27	385.61	373.89	399.61	387.10	384.80
<b>Total: 5 W.T. Exprs.</b>	<b>1157.81</b>	<b>1360.47</b>	<b>1323.70</b>	<b>1290.03</b>	<b>1419.90</b>	<b>1514.24</b>	<b>1350.42</b>	<b>1550.22</b>	<b>1646.66</b>	<b>1649.00</b>	<b>1669.77</b>	<b>1758.86</b>	<b>1697.62</b>	<b>1643.42</b>	<b>1856.85</b>	<b>1739.51</b>
W. Germany	260.37	316.69	321.55	375.81	395.65	439.56	375.49	393.97	397.77	401.83	409.75	422.86	422.96	428.39	406.63	329.98
Netherlands	56.28	68.11	75.49	78.80	87.03	84.94	72.61	87.15	77.71	83.25	86.07	94.04	91.24	81.89	82.60	61.83
Canada	82.08	90.79	65.96	78.82	87.04	71.75	69.86	75.18	76.94	71.04	73.05	76.18	76.65	77.28	75.47	70.39
Sweden	38.45	48.45	42.02	42.40	39.47	41.73	39.37	47.03	50.66	43.03	46.77	54.67	54.52	51.71	51.94	54.03
<b>Total: 4 W.T. Impr.</b>	<b>437.18</b>	<b>523.04</b>	<b>505.02</b>	<b>576.83</b>	<b>609.19</b>	<b>638.98</b>	<b>557.33</b>	<b>602.33</b>	<b>603.08</b>	<b>599.15</b>	<b>615.63</b>	<b>647.75</b>	<b>645.75</b>	<b>639.27</b>	<b>616.64</b>	<b>516.23</b>
Austria	24.28	26.88	27.15	29.46	31.58	33.63	28.06	33.10	35.11	37.81	37.26	43.11	40.54	38.92	41.69	31.10
Denmark	24.21	29.60	28.30	24.80	26.01	29.70	24.81	29.01	27.95	28.39	30.77	33.09	32.69	35.01	34.26	32.27
Finland	17.35	18.21	20.04	18.94	27.18	23.01	19.88	22.20	18.56	22.81	21.61	24.25	23.27	21.36	23.21	23.25
Ireland	6.61	15.59	14.00	14.45	15.58	13.16	14.29	13.84	16.47	15.96	18.14	18.27	20.82	18.00	15.63	16.85
Norway	19.81	23.99	21.30	21.57	24.99	25.15	20.57	22.48	22.10	21.84	21.71	23.94	23.29	20.07	19.83	20.35
Switzerland	24.15	31.81	32.07	32.84	37.82	42.31	32.12	37.42	36.12	38.72	38.22	42.93	43.04	45.13	44.93	44.40
Greece	15.97	16.07	14.26	21.25	21.27	21.09	21.32	20.01	27.83	27.07	24.41	27.60	26.12	29.34	31.92	16.79
<b>Total: 7 W. Europe</b>	<b>132.38</b>	<b>161.15</b>	<b>158.12</b>	<b>167.31</b>	<b>182.43</b>	<b>187.05</b>	<b>162.05</b>	<b>178.06</b>	<b>184.14</b>	<b>192.60</b>	<b>192.12</b>	<b>213.19</b>	<b>209.77</b>	<b>207.83</b>	<b>211.47</b>	<b>185.01</b>
<b>Total: 21</b>	<b>1891.91</b>	<b>2208.84</b>	<b>2160.59</b>	<b>2200.67</b>	<b>2372.52</b>	<b>2520.88</b>	<b>2220.21</b>	<b>2488.90</b>	<b>2595.12</b>	<b>2600.20</b>	<b>2619.69</b>	<b>2771.97</b>	<b>2724.79</b>	<b>2681.85</b>	<b>2853.47</b>	<b>2605.22</b>
U.S.A.	836.89	809.75	673.25	779.60	843.73	763.54	731.99	881.73	852.03	872.48	958.91	931.07	909.94	1053.18	950.70	833.71
<b>Total: 22</b>	<b>2728.80</b>	<b>3018.59</b>	<b>2833.84</b>	<b>2980.27</b>	<b>3216.25</b>	<b>3284.42</b>	<b>2952.20</b>	<b>3370.63</b>	<b>3447.17</b>	<b>3472.68</b>	<b>3578.60</b>	<b>3699.04</b>	<b>3626.73</b>	<b>3735.03</b>	<b>3804.17</b>	<b>3438.93</b>

## IX. PER CAPITA AVAILABILITY OF WOOL-TYPE TEXTILES

The figures of Table IX, after division by population in each country, give the wool-type textiles available for consumption per capita set out in Table X and graphed in Figure 11.

Of salient importance here is the fact that while most groups of countries show a slowly rising trend (with very marked cycles) in per capita availability, the trend in the five raw wool producing countries has been consistently downwards with much the same pattern as that shown in the United States - possibly due to the high levels of protection afforded wool textile industries, and therefore higher prices charged for wool textiles, in these countries.

FIGURE 11      PER CAPITA AVAILABILITY OF WOOL  
TEXTILES INCLUDING OTHER FIBRES

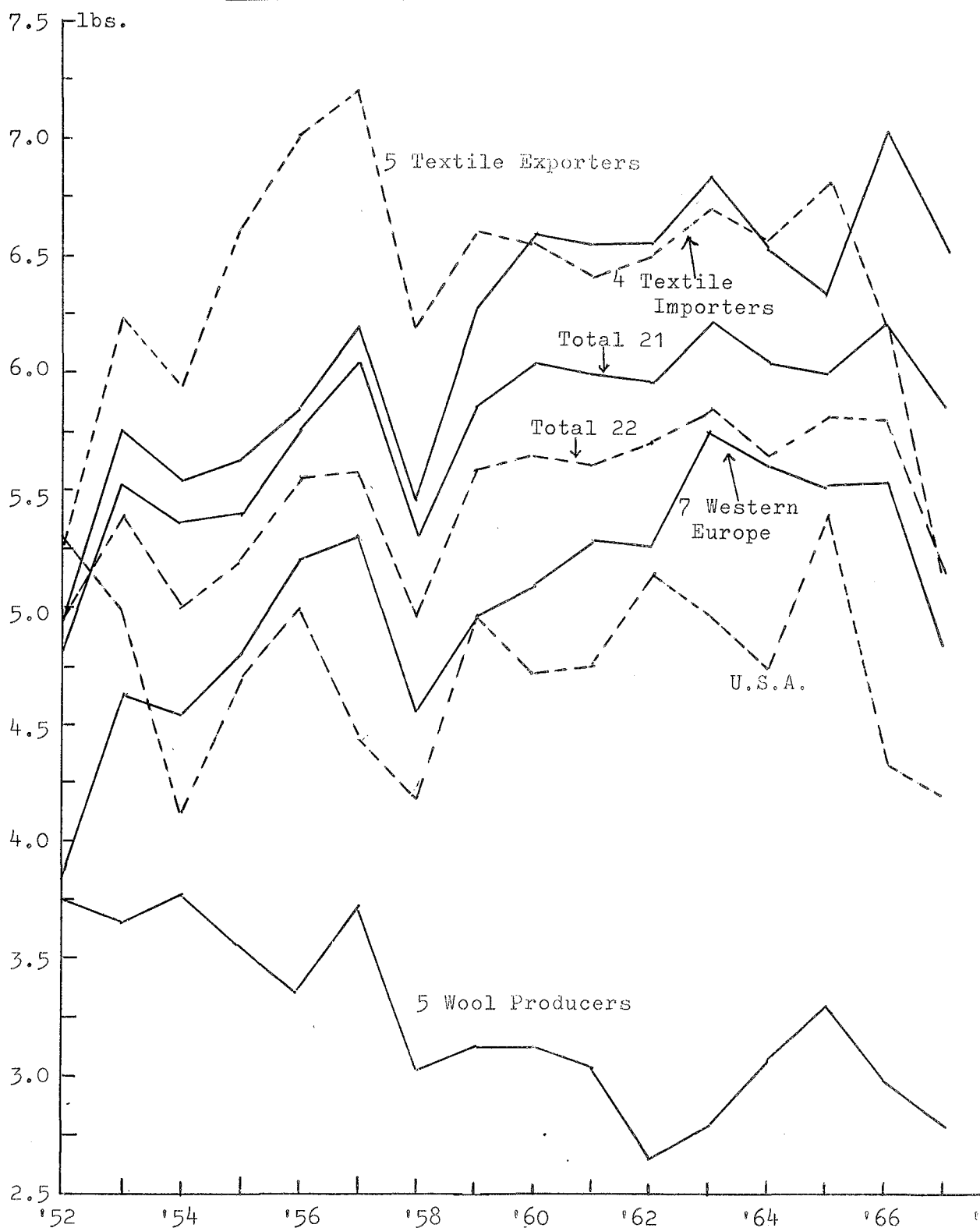


TABLE X : PER CAPITA AVAILABILITY OF WOOL TEXTILES INCLUDING FIBRES OTHER THAN VIRGIN WOOL  
(Fibre content, lbs. per head)

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
Argentina	3.50	3.54	2.87	3.00	2.57	3.54	2.64	2.45	1.88	2.18	0.86	0.46	1.59	1.75	1.50	1.37
Australia	4.39	4.41	5.29	4.87	4.67	5.33	4.72	4.96	5.50	4.68	5.40	7.20	6.08	7.04	5.83	6.30
New Zealand	6.94	6.56	8.15	8.28	6.57	7.00	6.90	5.46	7.77	7.94	7.54	7.60	7.42	7.46	9.62	8.82
South Africa	2.96	3.22	3.30	2.60	2.82	2.51	2.04	2.35	2.27	2.01	2.10	1.96	2.22	2.15	1.61	1.59
Uruguay	4.50	1.71	3.89	4.16	3.04	2.99	1.81	3.72	4.21	5.30	4.67	4.14	3.90	3.84	4.38	1.79
<u>Total: 5 Producers</u>	3.73	3.65	3.77	3.56	3.35	3.71	3.02	3.12	3.11	3.02	2.64	2.78	3.06	3.29	2.91	2.79
U.K.	7.41	7.75	9.51	9.50	9.08	9.44	8.60	9.95	9.55	9.19	9.28	9.47	9.51	9.63	9.30	9.11
Belgium	6.19	7.60	7.35	7.14	8.00	8.99	7.85	7.07	7.36	6.91	6.61	6.99	7.56	7.50	8.78	7.26
France	7.03	6.72	6.89	6.47	7.52	7.86	7.03	7.56	6.78	6.99	7.33	8.38	7.81	6.85	8.08	6.48
Italy	5.12	5.49	5.52	4.60	4.70	5.62	5.35	6.94	8.41	7.63	7.76	7.88	7.06	6.40	9.20	8.79
Japan	2.59	2.95	2.46	2.71	3.21	3.49	2.88	3.54	3.77	4.21	4.01	4.02	3.86	4.07	3.92	3.85
<u>Total: 5 W.T. Exporters</u>	4.94	5.76	5.55	5.37	5.85	6.19	5.49	6.25	6.59	6.54	6.56	6.83	6.53	6.33	7.02	6.52
W. Germany	5.12	6.15	6.20	7.18	7.47	8.19	6.91	7.17	7.18	7.16	7.20	7.27	7.14	7.81	6.81	5.51
Netherlands	5.37	6.34	7.01	7.23	8.03	7.72	6.50	7.67	6.79	7.17	7.30	7.86	7.52	6.66	6.63	4.91
Canada	5.68	6.13	4.31	5.03	5.38	4.33	4.10	4.29	4.31	3.88	3.92	4.03	3.98	3.89	3.76	3.44
Sweden	5.38	6.77	5.84	5.88	5.41	5.69	5.33	6.32	6.80	5.76	6.13	7.19	7.12	6.69	6.65	6.87
<u>Total: 4 W.T. Importers</u>	5.27	6.23	5.93	6.69	7.00	7.20	6.19	6.60	6.53	6.40	6.49	6.70	6.56	6.80	6.17	5.12
Austria	3.49	3.86	3.89	4.22	4.61	4.83	4.07	4.70	5.02	5.35	5.21	6.01	5.62	5.36	5.72	4.25
Denmark	5.59	6.71	6.40	5.70	5.78	6.53	5.50	6.38	6.10	6.16	6.62	7.06	6.93	7.36	7.14	6.67
Finland	4.26	4.32	4.80	4.46	6.23	5.25	4.67	5.05	4.19	5.11	4.80	5.34	5.08	4.63	5.01	4.98
Ireland	2.24	5.35	4.93	4.88	5.27	4.60	5.01	5.04	5.78	5.66	6.41	6.06	7.27	6.37	5.42	5.79
Norway	6.10	7.02	6.40	6.38	7.11	7.12	5.87	6.30	6.23	6.05	5.96	6.53	6.30	5.39	5.28	5.38
Switzerland	5.01	6.35	6.51	6.54	7.42	8.19	6.18	7.12	6.73	7.05	6.75	7.44	7.33	7.59	7.49	7.34
Greece	2.08	2.04	1.87	2.73	2.56	2.63	2.61	2.42	3.33	3.23	2.84	3.25	3.07	3.43	3.71	1.93
<u>Total: 7 W. Europe</u>	3.87	4.67	4.55	4.79	5.20	5.29	4.55	4.96	5.09	5.28	5.21	5.74	5.60	5.51	5.57	4.83
<u>Total: 21</u>	4.77	5.52	5.35	5.39	5.75	6.04	5.27	5.84	6.03	5.98	5.95	6.21	6.03	5.98	6.20	5.60
<u>U.S.A.</u>	5.31	4.99	4.13	4.70	5.00	4.44	4.19	4.96	4.72	4.75	5.14	4.92	4.74	5.41	4.33	4.19
<u>Total: 22</u>	4.93	5.39	5.00	5.19	5.53	5.57	4.95	5.58	5.64	5.61	5.71	5.83	5.64	5.81	5.79	5.18

X. ANNUAL CHANGES IN THE SOURCES AND USES OF WOOL  
FROM 1952 TO 1967

We can broadly summarise the trends shown in the preceding tables and charts by setting down the changes each year from 1952 to 1967 in the 21 Country Group.

Table XI shows for each year over the period 1952 to 1967, the sources of wool supplies in the 21 Country Group, and the way in which these supplies were used as between virgin wool content of textile consumption in 21 countries, exports of raw wool and of wool textiles, and in between each year the change in these variables is shown.

Figure 12 shows the same information in graphical form and highlights the preponderant influence of wool textile consumption in the 21 Country Group, together with the steady upward trend in exports of wool and wool textiles to non group countries.

A more detailed picture of the annual fluctuation in the uses of wool over the period is shown in Figures 13 and 14.

TABLE XI : CHANGES IN SOURCES & USES OF WOOL

	1952	Change	1953	Change	1954	Change	1955	Change	1956	Change	1957	Change	1958	Change	1959	Change
<u>Sources of Wool:</u>																
Wool from production, imports & supply stocks	1441	+455	1896	-227	1669	+ 24	1693	+207	1900	+ 83	1983	-190	1793	+347	2140	- 86
Wool withdrawn from Comm. Stocks & Est. Errors	254	-289	- 35	+ 98	63	+ 35	98	- 85	13	- 26	- 13	92	79	- 60	19	+113
Total Wool Supplies	1695	166	1861	-129	1732	+ 59	1791	+122	1913	+ 57	1970	- 98	1872	+287	2159	+ 27
<u>Uses of Wool Supplies:</u>																
Exports of Wool to U.S.A.	301	- 60	241	- 78	163	+ 30	193	- 4	189	- 44	145	+ 2	147	+ 87	234	- 55
Exports of Wool to other Countries	75	- 4	71	+ 53	124	- 16	108	- 6	102	+ 17	119	+ 72	191	- 1	190	+ 35
Estimated Raw Wool Content of:																
Exports of wool textiles to U.S.A.	50	- 17	33	- 2	31	+ 11	42	+ 4	46	- 3	43	+ 4	47	+ 19	66	-
Exports of wool textiles to Other Countries	59	+ 28	87	+ 12	99	+ 10	109	+ 1	110	+ 2	112	+ 5	117	- 5	112	+ 11
Consumption of wool textiles in 21 Countries	1210	+219	1429	-113	1316	+ 24	1340	+126	1466	+ 83	1549	-179	1370	+187	1557	+ 36
Errors Unaccounted for	-	-	-	- 1	- 1	-	- 1	+ 1	-	+ 2	+ 2	- 2	-	-	-	-
Total Wool Usage	1695	+166	1861	-128	1732	+ 59	1791	+122	1913	+ 57	1970	- 98	1872	+287	2159	+ 27
<u>1960 Change 1961 Change 1962 Change 1963 Change 1964 Change 1965 Change 1966 Change 1967</u>																
<u>Sources of Wool:</u>																
Wool from production, imports & supply stocks	2054	+103	2157	+ 23	2180	+ 2	2182	- 50	2132	+ 51	2183	+ 62	2245	-189	2056	
Wool withdrawn from Comm. Stocks & Est. Errors	132	- 88	44	+ 37	81	+ 43	124	- 98	26	+ 49	75	+ 19	94	+ 42	136	
Total Wool Supplies	2186	+ 15	2201	+ 60	2261	+ 45	2306	-148	2158	+100	2258	+ 81	2339	-147	2192	
<u>Use of Wool Supplies:</u>																
Exports of Wool to U.S.A.	179	+ 26	205	+ 8	213	+ 23	236	- 59	177	+ 79	256	+ 3	259	- 63	196	
Exports of Wool to Other Countries	225	- 17	208	+ 29	237	+ 22	259	- 8	251	+ 27	278	- 18	260	+ 73	333	
Estimated Raw Wool Content of:																
Exports of Wool textiles to U.S.A.	66	+ 6	72	+ 3	75	- 4	71	- 12	59	+ 6	65	+ 3	68	- 22	44	
Exports of Wool textiles to Other Countries	123	- 24	99	+ 14	113	- 18	95	+ 6	101	- 16	85	- 14	71	+ 20	91	
Consumption of Wool textiles in 21 Countries	1593	+ 24	1617	+ 5	1622	+ 24	1646	- 76	1570	+ 4	1574	+107	1681	-155	1526	
Errors Unaccounted for	-	-	-	+ 1	+ 1	- 2	- 1	- 1	-	-	-	-	-	-	+ 2	
Total Wool Usage	2186	+ 15	2201	+ 60	2261	+ 45	2306	-148	2158	+100	2258	+ 81	2339	-147	2192	

FIGURE 12

TOTAL WOOL USAGE

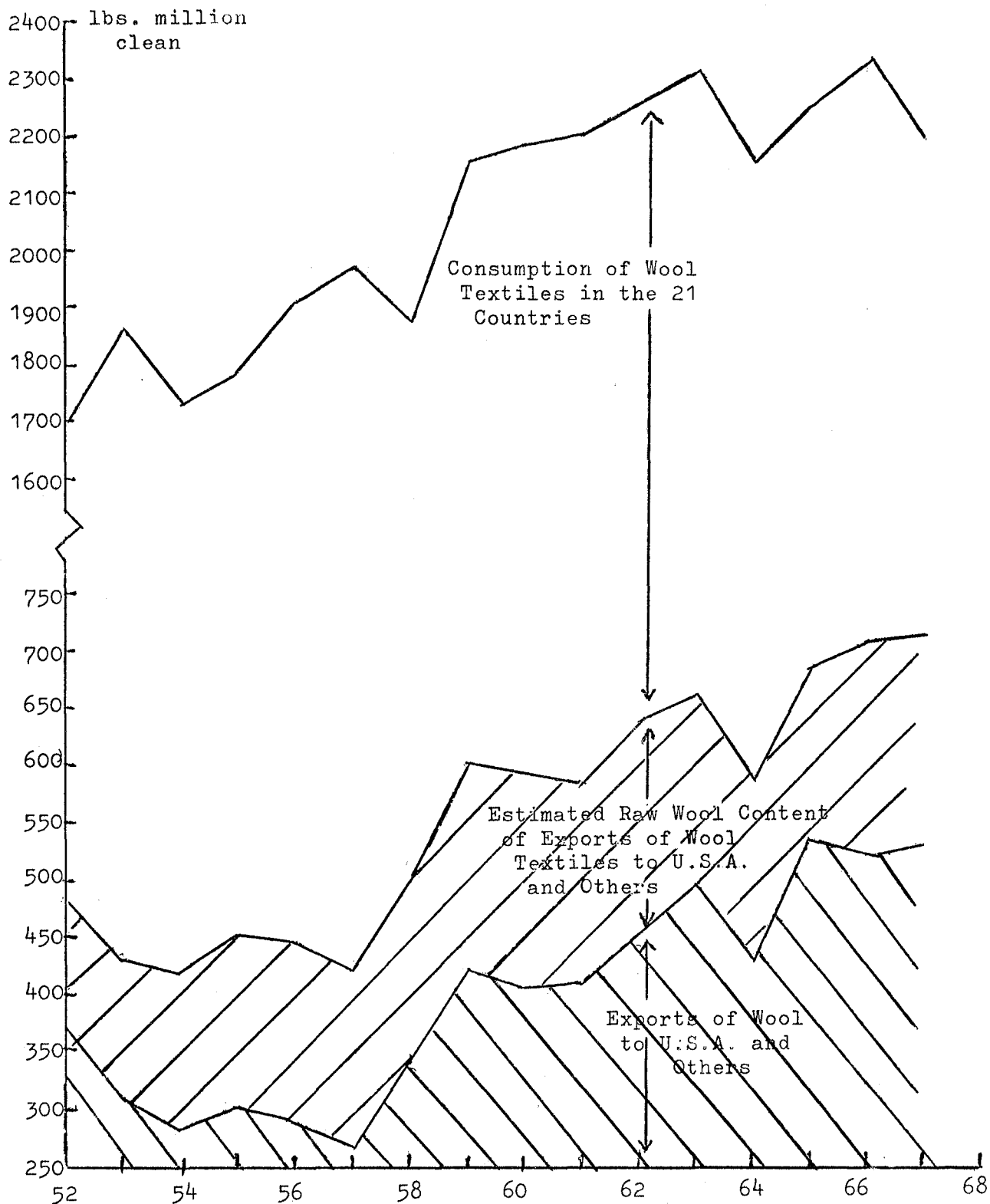


FIGURE 13 CHANGES IN SOURCES AND USES OF WOOL

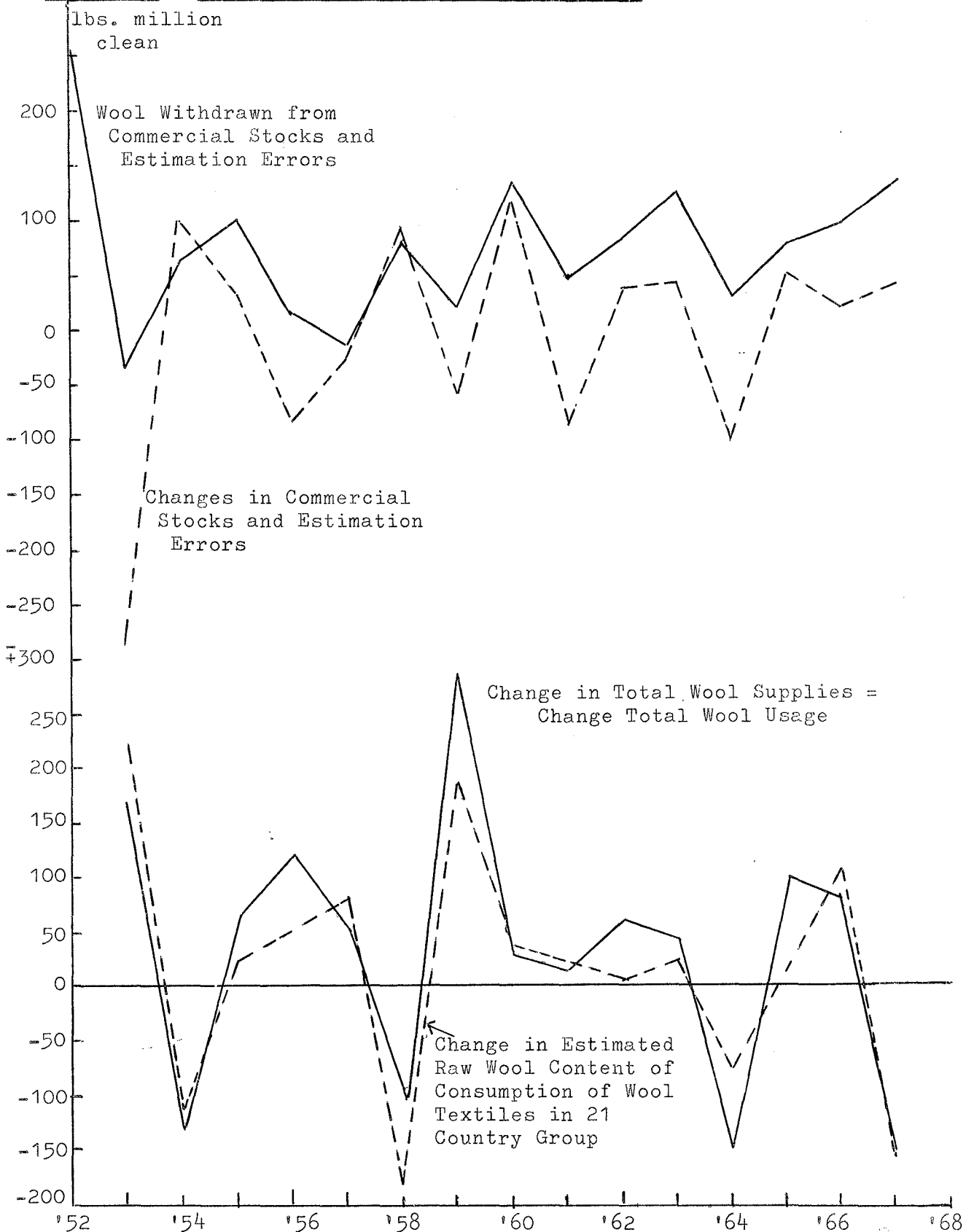
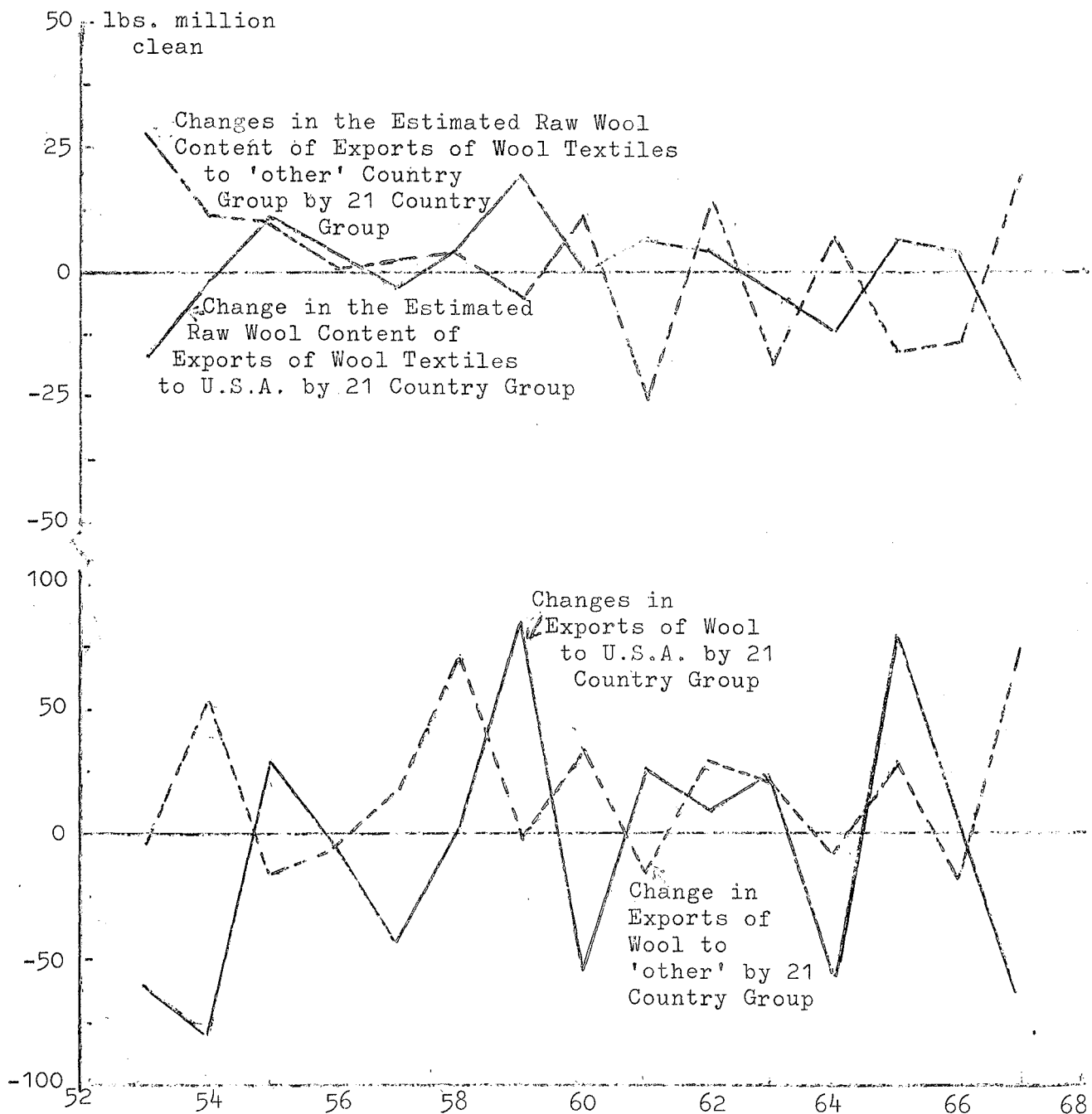


FIGURE 14 CHANGES IN USES OF WOOL



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