

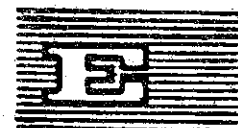
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ECONOMIC COMMISSION FOR AFRICA

## TOBACCO MANUFACTURE IN THE NORTH AFRICAN SUB-REGION

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Note: To meet certain requirements of Professor Bos', who is co-ordinating the North African harmonization study, it was necessary to revise and extend the tables in the original expert study. The text in that study, however, has not been revised as yet to incorporate the new data, and only the tables themselves are available for distribution.

Tobacco Manufacture (revised tables)

During 1964, total demand for manufactured tobacco products in the Maghreb approximated 18,000 tons, and each of the countries, but most notably Algeria, was characterized by surplus capacity. Exports and imports in that year were 850 tons and 785 tons respectively. Direct data for valuing internal demand are not available, but using international norms the retail values, excluding all taxes, would be in the order of US\$ 48 million.

Demand, by 1980, is expected to double (35,600 tons) in volume terms and to reach US\$ 84 million in value terms. The expert study is based on the presumption that each country will meet its own internal demand and that both exports (595 tons) and imports (170 tons) will decline. Capital formation required to finance this growth in productive capacity is estimated to be US\$ 5.2 million. Study suggests that this can easily be accommodated by conservatively estimated depreciation flows in the existing and new facilities.

Table I : Tobacco: Production, demand, employment and investments 1960-1980 - Country: Algeria, SITC no. 122

	Units	1960	1961	1962	1963	1964	1965-70	1970	1971-75	1975	1976-80	1980
1. Capacity	Metric tons					15000 <sup>a/</sup>		15000		15600		19200
2. Gross output												
a. value	\$ 000					22850		27740		34020		41870
b. quantity	Metric tons	23600	13375 <sup>a/</sup>	10600 <sup>a/</sup>	8515 <sup>a/</sup>	8730 <sup>a/</sup>		10600 <sup>a/</sup>		13000 <sup>a/</sup>		16000 <sup>a/</sup>
3. Value added						6650		8080		9910		12190
4. Exports												
a. value	\$ 000					2000		750		880		1000
b. quantity	Metric tons					800 <sup>a/</sup>		300 <sup>a/</sup>		350 <sup>a/</sup>		400 <sup>a/</sup>
5. Imports												
a. value	\$ 000					640		200		160		100
b. quantity	Metric tons					160 <sup>a/</sup>		50 <sup>a/</sup>		40 <sup>a/</sup>		25 <sup>a/</sup>
6. Domestic demand (= 2 + 5 - 4)												
a. value	\$ 000					21490		27190		33300		40970
b. quantity	Metric tons					8090 <sup>a/</sup>		10350 <sup>a/</sup>		12690 <sup>a/</sup>		15625 <sup>a/</sup>
7. Employment, total of which												
a. value	\$ 000					2880 <sup>a/</sup>		3000 <sup>a/</sup>		3100 <sup>a/</sup>		3200 <sup>a/</sup>
8. Fixed capital formation												
Gross												
Depreciation flow												
Net												
\$ 000												
(2730)												
(2770)												
(2530)												
1440												
(3410)												
(1970)												

a/ From Dr. El Hawary's report.

Table I : Tobacco: Production, demand, employment and investments 1960-1980 - Country: Libya, SITC no. 122

[illegible]

a/ - From Dr. El-Hawary's report.

Table I : Tobacco: Production, demand, employment and investments 1960-1980 - Country Morocco, SITC no.122

	Units	1960	1961	1962	1963	1964	1965-70	1970	1971-75	1975	1976-80	1980
1. Capacity	Metric tons					6300 <sup>a/</sup>		8200		10200		12700
2. Gross output												
a. value	\$ 000					13970		18270		22840		28480
b. quantity	Metric tons	4270 <sup>a/</sup>	4590 <sup>a/</sup>	4700 <sup>a/</sup>	5075 <sup>a/</sup>	5200 <sup>a/</sup>		6800 <sup>a/</sup>		8500 <sup>a/</sup>		10600 <sup>a/</sup>
3. Value added						4010		5250		6560		8180
4. Exports												
a. value	\$ 000					20		25		30		38
b. quantity	Metric tons					8 <sup>a/</sup>		10 <sup>a/</sup>		12 <sup>a/</sup>		15 <sup>a/</sup>
5. Imports												
a. value	\$ 000					1040		800		480		160
b. quantity	Metric tons					260 <sup>a/</sup>		200 <sup>a/</sup>		120 <sup>a/</sup>		40 <sup>a/</sup>
6. Domestic demand ( = 2 + 5 - 4 )												
a. value	\$ 000					14990		19045		23290		28600
b. quantity	Metric tons					5452 <sup>a/</sup>		6990 <sup>a/</sup>		8608 <sup>a/</sup>		10625 <sup>a/</sup>
7. Employment, total of which						1900 <sup>a/</sup>		1900 <sup>a/</sup>		1920 <sup>a/</sup>		1920 <sup>a/</sup>
8. Fixed capital formation	Gross					760		800		1000		1000
\$ 000	Depreciation flow					(1690)		(1800)		(2240)		(2240)
	Net					(930)		(1000)		(1240)		(1240)

a/ From Dr. El-Hawary's report.

Table I : Tobacco: Production, demand, employment and investments 1960-1980 - Country Sudan, SITC no. 122

Units		1964	1965	1965-70	1970	1971-75	1975	1976-80	1980
1. Capacity	Metric tons	1100	1100 <sup>a/</sup>		1100		1200		1560
2. Gross output									
a. value	\$ 000	785			1880		2620		3400
b. quantity	Metric tons	300	340 <sup>a/</sup>		720 <sup>a/</sup>		1000 <sup>a/</sup>		1300 <sup>a/</sup>
3. Value added		230			550		760		990
4. Exports									
a. value	\$ 000								
b. quantity	Metric tons								
5. Imports									
a. value	\$ 000	3000			1400		1000		600
b. quantity	Metric tons	750 <sup>a/</sup>	550 <sup>a/</sup>		350 <sup>a/</sup>		250 <sup>a/</sup>		150 <sup>a/</sup>
6. Domestic demand (= 2 + 5 - 4)									
a. value	\$ 000	3785			3280		3620		4000
b. quantity	Metric tons	1050			1070 <sup>a/</sup>		1250 <sup>a/</sup>		1450 <sup>a/</sup>
7. Employment, total of which		825 <sup>b/</sup>	825 <sup>a/</sup>		825		825		825
8. Fixed capital formation	Gross					40		140	
\$ 000	Depreciation flow			(160)	(160)	(200)		(270)	
	Net			(160)		(160)		(130)	

a/ From Dr. El-Hawary's report.

b/ For approximately the same capacity. But with more than twice this output E.T. has 200 employees in the plant (150 in operations, 50 clerical).

Table 1 : Tobacco: Production, demand, employment and investments 1960-1980 - Country: Tunisia, SITC n°. 122

	Units	1960	1961	1962	1963	1964	1965-70	1970	1971-75	1975	1976-80	1980
1. Capacity	Metric tons					4600 <sup>a/</sup>		4600		5600		7000
2. Gross output												
a. value	\$ 000					8900		9630		12200		15360
b. quantity	Metric tons	2347 <sup>a/</sup>	3174 <sup>a/</sup>	3133 <sup>a/</sup>	3359 <sup>a/</sup>	3400		3680 <sup>a/</sup>		4660 <sup>a/</sup>		5870 <sup>a/</sup>
3. Value added						2590		2800		3550		4470
4. Exports												
a. value	\$ 000					100		150		300		450
b. quantity	Metric tons					40 <sup>a/</sup>		60 <sup>a/</sup>		120 <sup>a/</sup>		180 <sup>a/</sup>
5. Imports												
a. value	\$ 000					380		60		40		20
b. quantity	Metric tons					95 <sup>a/</sup>		15 <sup>a/</sup>		10 <sup>a/</sup>		5 <sup>a/</sup>
6. Domestic demand (= 2 + 5 - 4)												
a. value	\$ 000					9180		9540		11940		14930
b. quantity	Metric tons					3455		3635 <sup>a/</sup>		4550 <sup>a/</sup>		5695 <sup>a/</sup>
7. Employment, total of which						770 <sup>a/</sup>		830 <sup>a/</sup>		850 <sup>a/</sup>		880 <sup>a/</sup>
8. Fixed capital formation	Gross								400			560
Depreciation flow						(1000)		(980)				(1240)
Net	\$ 000					(1000)		(580)				(680)

a/ From Dr. El-Hawary's report.

Table 1 : Tobacco: Production, demand, employment and investments 1960-1980 - Country:UAR, SITC no. 122

	Units	1960	1961	1962	1963	1964	1965-70	1970	1971-75	1975	1976-80	1980
1. Capacity	Metric tons					18000		22800		27600		33600
2. Gross output												
a. value	\$ 000					38280		48490		58700		71460
b. quantity	Metric tons	13000 <sup>a</sup> / <sub>a</sub>	14000 <sup>a</sup> / <sub>a</sub>	15000 <sup>a</sup> / <sub>a</sub>	15000 <sup>a</sup> / <sub>a</sub>	15000 <sup>a</sup> / <sub>a</sub>		19000 <sup>a</sup> / <sub>a</sub>		23000 <sup>a</sup> / <sub>a</sub>		28000 <sup>a</sup> / <sub>a</sub>
3. Value added						11280		14290		17300		21060
4. Exports												
a. value	\$ 000					750		1500		2250		3500
b. quantity	Metric tons					300 <sup>a</sup> / <sub>a</sub>		600 <sup>a</sup> / <sub>a</sub>		900 <sup>a</sup> / <sub>a</sub>		1400 <sup>a</sup> / <sub>a</sub>
5. Imports												
a. value	\$ 000											
b. quantity	Metric tons											
6. Domestic demand (= 2 + 5 - 4)												
a. value	\$ 000					37530		46990		56450		67960
b. quantity	Metric tons					14700 <sup>a</sup> / <sub>a</sub>		18400 <sup>a</sup> / <sub>a</sub>		22100 <sup>a</sup> / <sub>a</sub>		26600 <sup>a</sup> / <sub>a</sub>
7. Employment, total of which						7700 <sup>a</sup> / <sub>a</sub>		8000		8200		8500
8. Fixed capital formation \$ 000	Gross Depreciation flow Net											
							1920		1920		2400	
							(4790)		(4940)		(5990)	
							(2870)		(3020)		(3590)	

a/ From Dr. El-Hawary's report.



**Table 3 : Country: Algeria. Input structure of industry ISIC No. 122**  
**Year 1964**

	Absolute values		Input coefficients	
	1 Total	2 of which imported	3	4 2 as % of 1
0 Agriculture, etc.	5675	3492	.2481	62%
X Unallocated	437	-	.0191	-
20 Food manufacturing ind.				
27/28	2008	1004	.0878	50%
36/37	131	131	.0057	100%
61	6111	-	.2672	
62/63	437		.0191	
7	698	-	.0305	-
8/9	698	-	.0305	-
Total intermediate inputs	16195	4627	.7080	29%
Salaries and wages	2183		.0960	
Rest	<u>4472</u>		<u>.1960</u>	
Total gross output (factor cost)	22850		1.0000	
Notional indirect tax (1000%)	<u>22850</u>			
Total gross output (market)	45700			

Table 3 : Country: Libya. Input structure of industry ISIC No. 122  
Year 1964

	Absolute values		Input coefficients	
	1 Total	2 of which imported	3	4 2 as % of 1
0 Agriculture, etc.	481	193	.2429	40%
X Unallocated	39	-	.0197	
27/28	177	177	.0893	100%
36/37	12	12	.0061	100%
61	539	-	.2722	
62/63	35	-	.0177	
7	62	-	.0313	
8/9	62	-	.0313	
Total intermediate inputs	1407	382	.7105	27%
Salaries and wages	192		.0971	
Rest	381		.1924	
Total gross output (factor cost)	1980		1.0000	
Notional Indirect tax (100%)	1980			
Total gross output (market)	3960			

**Table 3 : Country: Morocco. Input structure of industry ISIC No. 122**  
**Year 1964**

	Absolute values		Input coefficients	
	1 Total	2 of which imported	3	4 2 as % of 1
0 Agriculture, etc.	3692	2912	.2643	79%
X Unallocated	260	-	.0186	-
20 Food manufacturing ind.				
27/28	1196	598	.0856	50%
36/37	78	78	.0056	100%
61	3640	-	.2606	-
62/63	260	-	.0186	-
7	416	-	.0298	-
8/9	416	-	.0298	-
Total intermediate inputs	9958	3588	.7128	36%
Salaries and wages	1300		.0931	
Rest	<u>2712</u>		<u>.1941</u>	
Total gross output (factor cost)	13970		1.0000	
Notional indirect taxes (100%)	<u>13970</u>			
Total gross output (market)	27940			

Table 3 : Country: Sudan. Input structure of industry ISIC No. 122  
Year 1964

		Absolute values		Input coefficients	
		1 Total	2 of which imported	3	4 2 as % of 1
0	Agriculture, etc.	195	120	.2481	62%
X	Unallocated	15	-	.0191	
27/28		69	69	.0878	100%
36/37		5	5	.0057	100%
61		210	-	.2672	
62/63		14	-	.0191	
7		24	-	.0305	
8/9		24	-	.0305	
Total intermediate inputs		556	194	.7080	35%
Salaries and wages		75		.0960	
Rest		<u>154</u>		<u>.1960</u>	
Total gross output (factor cost)		785		1.000	
Notional indirect tax (100%)					
Total gross output (market)					

Table 3 : Country: Tunisia. Input structure of industry ISIC No. 122  
Year 1964

	Absolute values		Input coefficients	
	1 Total	2 of which imported	3	4 2 as % of 1
0 Agriculture, etc.	2210	1360	.2481	62%
X Unallocated	170		.0191	
27/28	782	391	.0878	50%
36/37	51	51	.0057	100%
61	2380	-	.2672	
62/63	170	-	.0191	
7	272	-	.0305	
8/9	<u>272</u>	-	<u>.0305</u>	
Total intermediate inputs	6308	1802	.7080	29%
Salaries and wages	850		.0960	
Rest	<u>1743</u>		<u>.1960</u>	
Total gross output(factor cost)	8900		1.000	
Notional indirect tax (100%)	<u>8900</u>			
Total gross output (market)	17800			

Table 3: Country: UAR. Input structure of industry ISIC No. 122  
Year 1964

		Absolute values		Input coefficients	
		1 Total	2 of which imported	3	4 2 as % of 1
0	Agriculture, etc.	9000	9000	.2351	100%
X	Unallocated	750		.0196	
27/28		3450	690	.0901	20%
36/37		225	225	.0059	100%
61		10500		.2743	
62/63		675		.0176	
7		1200		.0313	
8/9		1200		.0313	
	Total intermediate inputs	27000	9915	.7052	37%
	Salaries and wages	3750		.0981	
	Rest	7530		.0981	
	Total gross output (factor cost)	38280		1.0000	
	Notional indirect tax (100%)	38280			
	Total gross output (market)	76560			

Table 4 : Supply/demand balance and trade matrix: North Africa  
Industry and ISIC No. Tobacco - Commodities and SITC No. 122  
Year: 1965. In US\$ 1,000)

Importing country Exporting country	Morocco	Algeria	Tunisia	Libya	Maghreb	UAR	Sudan	North Afr. Sub- region
1. Morocco								
2. Algeria	8				8			8
3. Tunisia								
4. Libya								
5. Maghreb	8				8			8
6. UAR								
7. Sudan								
8. North African sub-region	8				8			8
9. West African sub-region	11				11			11
10. East African sub-region								
11. Central African sub-region								
12. Africa	19				19			19
13. Rest of the world	986	1014	160	1470	3630		3453	7083
of which								
14. France	200	489	1		690			690
15. Italy	2							2
16. West Germany		1						1
17. Netherlands	12	157	10	1	180		4	184
18. Belg./Lux.	33	100	1		134			134
19. USA	638	143	117	646	1544		17	1561
20. Total imports	1005	1014	160	1470	3649	61	3453	7102
21. Domestic produc- tion								
22. Total supply								
23. Exports	25	3890	48	2	3965	1361		5326
24. Domestic consumption								

Row 5 = Rows 1 + 2 + 3 + 4  
 Row 8 = Rows 5 + 6 + 7  
 Row 12 = Rows 8 + 9 + 10 + 11

Row 20 = Rows 12 + 13  
 Row 22 = Rows 20 + 21  
 Row 20 = Column 20