113 119

> الأُمست لم يحيث كرّة الفتندُوق أنخاصً/مُنطئة التنذيّة وَالزاعَة

NATIONS UNIES Fonds Spécial / FAO

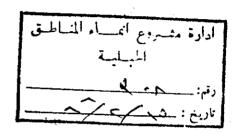


المجمهورتية اللبث مانيته المشؤؤة الانبخفكز

REPUBLIQUE LIBANAISE
PLAN VERT

مشروع انمت ادالمت اطِق الجب لية اللب نانية - اعت دَاد وأبحاث حرجيَّة

PROJET DE BONIFICATION INTEGRALE DE LA MONTAGNE LIBANAISE FORMATION ET RECHERCHES FORESTIERES



An Economic Analysis

of

Production and Market Conditions

of

TABLE GRAPES

Lebanon and the International Situations

الجمهورية اللبنانية مصتب وزير الدولة لشؤون التنمية الإدارية مركز مشاريع ودراسات العطاع العام

Republic of Lebanon

Office of the Minister of State for Administrative Reform

Center for Public Sector Projects and Studies

(C.P.S.P.S.)

MFN= 437

SECTION OF ECONOMIC STUDIES E - A.H. - 1/66 January, 1966

19 SEP. LING.

An Economic of

Production and Markot Conditions

of

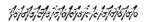
TABLE GRAPES

Lobanon and the International Situations

by Amin A. Hijazi

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
GENERAL GLOBAL SITUATION	2
DOMASTIC SITUATION (LEBANON)	4
A. PRODUCTION	4
B. TRADE AND CONSUMPTION	6
C. PRICES	9
D. FUTURE OUTLOCK	13
SITUATION IN THE NEAR MAST AND NORTH AFRICA	16
A. PRODUCTION	17
B. TRADE AND CONSUMPTION	23
SITUATION IN EUROPE	
A. SUPPLYING COUNTRIES OF THE EUROPEAN MARKET	28
B. IMPORTING COUNTRIES OF EUROPE	29
C. DEMAND OUTLOOK	30
D. EXPORT POTENTIAL OF TRADITIONAL SUPPLIERS	32
CONCLUSION	36





INTRODUCTION

Economic studies on present and future market and price conditions for the crops that might be grown on the land developed by the "Green Plan" are of major importance to any evaluation of the best land use: pattern and to the success of the project. These studies must be completed before occumenically sound and practical recommendations can be made to farmers to guide their long run production investments. Price analysis and projected production—consumption balance studies are needed for each of the important agricultural products to be considered for the areas being developed.

This overall analysis can be divided logically into three major categories:-

- 1.- An analysis of the domostic situation (Lobanon) for all crops under consideration.
- 2 An analysis of the Near Mast countries for crops that are experted, or are likely to be experted to these countries.
- 3 A study of the European or other potential market areas for the crops that would likely be experted to these more distant markets.

This preliminary study deals with one of the crops under consideration, namely table grapes. The analysis is made 1.om data available in the local and international literature. A great deal of the data needed for a complete analysis is lacking, while some of the available data is inadequate. The needed information and the information that is lacking are pointed out all along the discussion.

GANIRAL GLOBAL SITUATION

The world total grapes production in 1963/64 amounted to about 45 million metric tons and it is expected to expand further mainly as a result of extensive new plantings in Eastern Europe. In Western Europe and the United States, however, long-standing disposal problems continue to involve considerable regulation of output and marketing, with varying degrees of success. Wine remains the principal outlet for the harvest, netwithstanding compaigns to promote juice consump ion, while only some $2\frac{1}{2}$ million tons of fruit are dried.

<u>Tablo - 1</u>

<u>World Regional Total Grapes Production and Tablo Grapes</u>

<u>Production. Annual Average- 1961/62-1963/64</u>

(in 1000, metric tous)

Rogion	Total Grapes Production		Percont of Tablo Grapes from total grapes
Europo	29,747	3,589	12.1
North America	3,100	465	15•0
Latin America	3,863	79	2,1
Neur East	4,130	303	7•3
Far East	212	-	-
Africa	3,070	206	6.7
Ocoania	597	20	3•4
TOTAL	44,719	4,663	10.4

SOURCES:

- 1. FAO Production Yearbook 1954
- 2. G. Coda Nunzianto, Market outlets in Europe for Selected Fruits and vegetables, FAO Near East Regional Conference on Marketing and refrigeration of perishable produce (Beirut, Lebanon, Sept. 1965).

World production of table grapes can be estimated only approximately because of the incomplete breakdown in the statistics of producing countries. Moreover, table varieties can also be crushed for wine or juice or dried and raisin varieties are commonly caten fresh. Although statistics

are therefore uncertain, it is estimated that the production of table grapes represents only about 10 percent of all grapes supplies (see table-1) and it is thought that this proportion will increase in the future.

Table - 1 shows the annual average world regional total grapes production and the average regional table grapes production during 1961/62-1963/64. Europe with a production of total grapes of over 29½ million tens was by far the largest productor followed by the Near Mast Latin America and North America with productions of 4,130,000 3,863,000 3,100,000 metric tens respectively. Table grapes production constitutes a small proportion of the total production of grapes. During 1961-1964, as indicated by table-1, this proportion ranged from 15.0 percent in North America to only 2.1 percent in Latin America. In Europe and the Near East regions the proportion was 12.1 percent and 7.3 percent respectively.

The world production of table grapes has almost doubled since 1952. Excluding Turkey, which produces almost entirely raisin grapes and the Soviet Union which is a large importor, the largest increases have taken place in Bulgaria, Italy, Spain, Greece and South Africa, all major export rs. In the Near Mast region, Syria, Jordan and Lebanon are important producers but only minor exporters to other countries of the region.

The main marketing season for table grapes is concentrated in the months of August through November, eventhough small quantities enter the market in the latter half of July. South Africa is the only major supplier in the first half of the year (February through April) but there are also small quantities of het house grapes available from Belgium and the Netherlands.

DOMESTIC SITUATION (L.B.NON)

Grapos in Lebanon could be grouped into three categories according to the purpose for which they are intended. These three categories are table grapes, grapes dried for raisin and grapes used for industrial and distillation purposes like wines, araks, vinegar, mollasses and other preparations. In an unpublished study by the Industry Institute in 1959 and as indicated by table-2, table grape varieties constituted 53 percent of all varieties of grapes in Lebanon.

Table = 2

Broakdown of Available Varieties of Grapes
in Lebenon in 1957

	Kind of Grapes	Porcen of total
1.	Table grapes	53.0
2.	Currant making grapos (Raisin sec)	3.0
3.	Grapes used for industrial purposes and distillation (wines, araks, vinegar, mollasses and other preparations)	44•0
	Total	100.0

SOURCE: From an unpublished report by the Industry Institute

First choice arieties of grapes are reserved for table use while the less satisfactory ones are used for industrial and curing purposes. Some of the first class varieties of grapes are commonly known under the following names: Toufayfihy, Baytamouny, Bayyady, and Obaydy.

A. PRODUCTION

Accurate statistics on grapes production in Lebanon are not available. According to rough estimates reported by the Ministry of Agriculture the total grape production amounted to about 100,000 metric tens in 1964. No estimate for the production of table grapes alone is given. Considering the study of the Industry Institute referred to earlier and the estimate of

IRFED (table grapes constitute about 60% of total grapes production) the production of table grapes in 1964 is estimated to have been 57,000 tens (57% of total). It is however believed that sizable quantities of the inferior quality grapes are consumed frosh.

Data in table - 3 show estimates of areas production and average yields of total grapes from 1955 - 1964 as reported by the ministry of agriculture. To even out annual ariations and to analyse the data in table-3,

Tatle - 3

Δroas, Production and Yield of Total Grapes

Lebanon - 1955 - 1964

Year	Arcas (hectarcs)	Production (motric tons)	Yiold (M. tons/ha)
1955	21,000	75,000	3.57
1956	22,000	80,000	3.64
1957	22,200	75,000	3•38
1058	22,500	80,000	3.56
1959	23,000	85,000	3.70
1960	24,000	70,000	2. 92
1961	24,200	90,000	3.72
1962	24,500	85,000	3.47
1963 ⁽¹⁾	25,000	90,000	3,60
1 964	25,000	100,000	4.00

(1) Data for this year are obtained from FAO production yearbook-1964

SOURCES:

- 1. Bulloting of Agricultural Statistics No. 1, Ministry of Agriculturo (Boirut, 1963)
- 2. Ministry of Agriculture, Department of Statistics, <u>Unpublished reports</u>.

3-years annual averages for the two periods 1955 - 1957 and 1962 - 64 were computed and an index was calculated. The results are presented in table - 4. Thus, the area under grapes during the period 1962 - 64 was 14 percent higher than during the period 1955 - 57. During the same interval the production of total grapes increased by 15 percent which indicates that the yield rose only very slightly.

Data in table - 5 is analysed further in table - 6 where annual variations are evened out and an index of increase computed. The annual average imports of total grapes decreased from 6,633 tens during 1955-57 to 2,762 tens during 1962-64, a decline of about 60 percent. The annual average exports, on the other hand, increased from 96 tens during 1955-57 to 1,236, tens during 1962-64, an increase of more than 10 times. As a result of these two opposing changes, the not imports declined by about 80 percent during the same interval of time. It should be noted that duting 1955-57 the exports constituted a very small proportion of the imports whereas during 1962-64 this proportion rose to about 45 percent. Between the two periods indicated the annual average consumption increased from about 83,000 tens to about 93,000 tens, an increase of only 12 percent.

Table - 5

Production, Imports, Exports, Not Imports and Consumption of Total Grapes - Lebanon, 1955-64 (im metric tons)

Yoar	Production	Imports	Export	Not Imports	Consump- tion
1955	75,000	6,600	81	6,519	81,519
1956	80,000	6 , 500	92	6,408	86 , 408
1957	75,000	6,800	114	6,686	81,686
1958	80,000	480	135	345	80,345
1959	85,000	5, 088	413	4,675	89,675
1960	70,000	4,236	502	3,734	73,734
1961	90,000	2 , 307	484	1,828	91,823
1962	85,000	2,317	880	1,437	86,437
1963	90,000	141 و 3	1;279	1,862	91,862
1964	100,000	2,829	1,551	1,278	101,278

SOURCES:

- 1. Bulleting of Agric Statistics No. 1 Ministry of Agriculture (Beirut, 1963).
- 2. Ministry of Agriculture. Department of Statistics; <u>Unpublished</u> <u>Report</u>.
- 3. Statistiquo du Commerce Exterieur, Annoe = 1955 63; Conseil Superieur des Douanes, Republique Libanaise.
- 4. Ministry of Planning, Bureau of Central Statistics, <u>Unpublished</u> Report.

<u>Table - 7</u>

Breakdown by Country of Imports and Exports of Total Grapes
in Lebanon in 1964(in motric tons)

Country	Imports	Percent of total	Exports	Percent of total
Syria .	2826.7	99•9	248.2	16.0
Jordan	1.9	0.1	262.1	16.9
Saudi-Arabia	-	_	582.1	37.5
Katar	_		0.3	nog.
Kuwait	-	_	80.8	5.2
UAR			2.2	0.1
Sudan	-	_	120.4	7.8
Other Arab countries		_	26.8	1.7
Total Arab countries	-	-	1322.9	85.2
Ghana	-	-	12.1	0.8
Othor countries	_	-	216.4	14.0
Total all coun- tries	2828.6	100.0	1551•4	100.0

SOL JUES:

From unpublished data from Consoil Superiour des Douanes, Republique Libanaise

C. PRICES

Monthly and annual average wholesale prices of table grapes, as a group, for the years 1955 through 1964 are given in table - 8 as reported by the Ministry of Agriculture. It should be pointed out that prices of different varieties of table grapes differ in varying degrees at different times during the marketing season. Such information however is not available. Also data on farm-gate prices or prices at the nearest points of sales are completely lacking.

To show the trend in prices over the past ten years, the annual average wholesale prices, are presented graphically in figure-7 which indicates two distinct trends. Between 1955 and 1959 the trend in the wholesale prices was downward, whomas from 1959 enwards the trend has been towards higher

prices. Not only were the prices rising after 1959, but also were at a higher level than they were prior to 1959. Thus during 1960 - 64, taking average of the five years, the prices were 12 percent higher than that ing 1955 - 1959.

To dotermine the seasonal variation in prices, monthly averages were computed for the five years 1960 - 64. An index of seasonal variation was obtained by considering the annual average for the period 1960 - 64 as the base. The results are present in table - 9 and in figure - 2. This analysis shows that prices are highest during July, November and December and lowest during the bulk of the harvest, namely during mugust September and October. Thus in July, November and December prices are respectively 26, 11 and 46 percent higher than the annual base average, whereas in August, September and October prices are, respectively, 11, 31, and 20 percent lower.

<u>Monthly and Annual Average Wholesale Prices of Table Grapes</u> in Lebanon - 1955 - 1964 (L. Pts per Kg.)

Ioar	July	August	Septem- bor	October	Newember	Decem- ber	Annual Avorage
1 955	-	80	-	25	43	60	52
1956	6C	42	36	43	57		48
1957	68	42	25	29	33	44	45
1958	37	34	25	39	51	60	41
1959	50	25	21	22	36	45	33
1960	53	33	27	40	75	90	53
1961	_	32	39	43	54	50	44
1962	-	39	40	52	70	103	61
1963	83	55	43	41	51	64	56
1964	-	80	-	41	48	87	64

SOURCE:

From unpublished data given by the Agricultural Beenomies Department at the Ministry of Agriculture

Table - 9

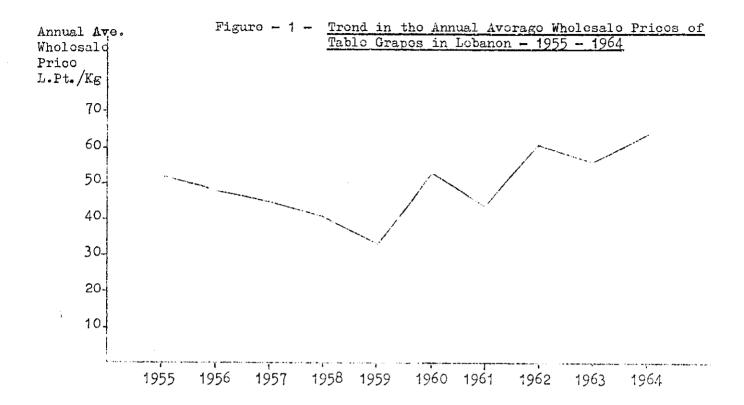
Monthly Avorage Wholesale Prices of Table Grapes in Lebanon For

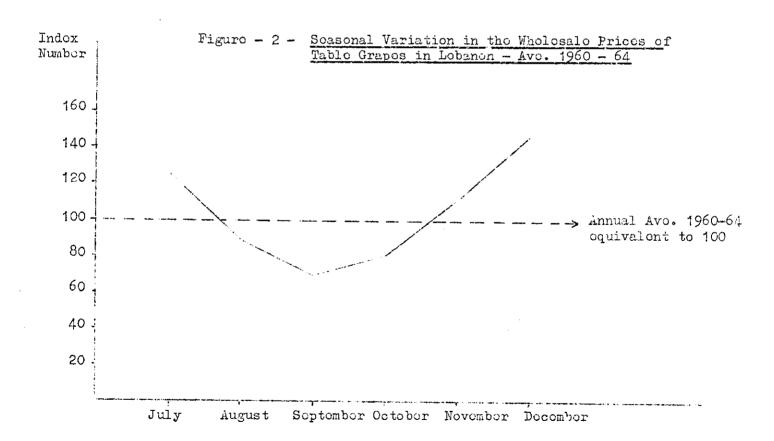
The Years 1960 - 64 and an Index of Seasonal Variation

Month	Monthly Avo. 1960 - 64	Index (Annual ave.1960-64= 100)
July	68	126
August	49	89
Septembor	3.7	69
October	43	80
November	60	111
Docombor	79	146

SOURCE:

Derived from table - 8.





D. FUTURE OUTLOOK

In making projections and forecasts for the future one should always koop in mind the accuracy, the limitations and the shortcomings of the data and methods that are available to him. It should be stressed at the start that the available data on production and consumption of table grapes in Lobanon are not very accurate. Moreover, and as far as consumption is concerned, the following necessary data are not at all available:

- 1. Present population and projected population growth
- 2. Present and projected por capita disposable income
- 3. Present per capita consumption by variety and method of preservation.
- 4. Income clasticities i.o. the responsiveness of consumption to variation in income. It is worth noting here that when the IRFED people made their estimates of future consumption of fruits in Lebanon, they used elasticities of other countries. I do not believe that this method is reliable. Conditions here are completely different especially from the standpoints of consumer tastes and preferences the level of income and the availability of different fruit substitutes, Moreover, any slight error in the clasticity exaggerates or under estimates the results to a great extent.

Imports do not concern us here because we only import grapes that are used by the local industries for wine and arak. Exports data are fairly accurate since they are obtained from actual customs records.

Another complication in making future estimates for supply and demand of table grapes is the lack of breakdown of total grapes statistics into table grapes and other kinds of grapes. The proportion of table grapes from total grapes is estimated, as cited earlier, at 57 percent considering the findings of the Industr. Institute and the IRFED mission. This propertion however, is expected to increase in the future since the majority of the new plantings of grape vines is believed to be in table grapes. It would therefore be a fair estimate to consider that table grapes production would constitue about 70 percent of total grapes production. The same proportion is believed appropriate for consumption. This proportion will be used in this study in making the estimates for the future.

It should also be borne in mind that in making projections for the future, it is implicity assumed that the present conditions of market structure and organization as well as the political framework, will not change in the future.

Despite all these limitations and difficulties projections and forecasts are still worthwhile to make. They are good guides to better allocation of resources and to better planning eventhough they are just estimates.

The mothed that will be used here for determining the secular trends is the simple least squares trend extrapolation. This method makes it possible to fit a curve into data of time series with minimum deviation. Inspite of its shortcomings, trend extrapolation remains one of the most commonly used devices in forecasting.

Table - 10 summarises the findings on the secular trends and fore-casts. It shows the secular trend functions of production, consumption and experts of total grapes and the respective estimates of total grapes and table grapes for 1975. Experts are all table grapes. The production of table grapes in 1975 is estimated at about 82,000 metric tens, while local consumption and experts are estimated at about 77,500 and 7,600 metric tens respectively. The estimate of IRFED of total grapes consumption of 150,000 metric tens in 1975, and that of table grapes of 90,000 tens (60% of total) is in my opinion very high.

There are indications therefore, that the demand for table grapes, represented by local consumption plus exports (77,500 + 7,600 = 85,100 tons) would in the future probably slightly exceed the supply, represented by production plus imports (82,000 + 0 = 82,000 tons), at constant prices. Consequently prices of table grapes in Lebanon are not expected to have a declining trend. The rising trend of the actual wholesale prices since 1959, as illustrated in figure-1, is a good support of this conclusion.

From the above information we can determine the optimum additional area needed to produce the quantity of table grapes that will both be likely consumed locally and will be likely experted. By optimum area is meant the are that would produce the necessary quantities at constant prices, or in other words, without resulting in excess of supply over demand and consequently a decline in prices and losses to the farmers.

The annual consumption and exports of table grapes at the present (in 1965) are estimated at about 70,000 tens. In 1975 the estimate for consumption plus exports at constant rices is 85,000 tens. To produce this annual excess in consumption and exports of 15,000 tens (85,000 less 70,000) we would need an additional area of about 3, 334 hectares, assuming a yield of 4.5 tens per ha. According to the rate of increase in area in table grapes for the past ten years, it is estimated that there are at the present about 800 ha. of non-bearing vines of table grapes. This leaves us with an area of 2534 (3,334 less 800). It must be made clear that this additional area in table grapes must be in production by 1975 and therefore its planting must be completed by 1971. Consequently starting 1966 and until 1971 (1971 included) an additional maximum/of about 420 ha. can be planted with table grapes every year.

Table - 10

Socular Trend Function for Production, Consumption and Exports of Total

Grapes in Lobanon and Astimates of the Respective Total Grapes and Table

Grapes Quantities in 1975

Item		total grapes in 1975 in motric tons	Projected quantity of table grapes in 1975-in metric tens (70% of to- tal grapes for produc- tion and consumption).
Production	Y = 83,000 + 1100 x (1)	117,100	81,970
Consumption	Y = 86,500 + 780 x (1)	110,670	77,469
Exports	Y = 1332 + 251 x	7,607	7,607

- (1) Y unit in metric tens
 X unit = half a year
 Origin between 1959 and 1960
- (2) Y unit in motric tons
 X unit = half a year
 Origin -- between 1962 and 1963

SITUATION IN THE NEAR EAST AND NORTH AFRICA (1)

Our concern to study the foreign market stems from two aspects. One aspect doals with the competitive position of Lebanon vis-a-vis other. experting countries and the other deals with the import potential in the importing countries. Information that is needed to study these two aspects in various countries, and for table grapes or any other crop that will be under consideration, is as follows:

i. On Production

- (a) Present land used for production.
- (b) Present age and number of trees by variety (at least by broad categories.)
- (c) Season of harvest and forsible storage duration by variety.
- (d) Prosent yield and production.
- (c) Information on the above items for the past ton years.
- (f) Projected future yield and production.

2. On Consumption

- (a) Present population and projected population growth.
- (b) Prosent and projected per capita disposable income.
- (c) Prosent and projected per capita consumption by variety and method of preservation.
- (d) Income-consumption clasticities
- (o) Frosont and projected estimates of imports from Lebanon under various alternative sets of relitical and economic assumptions.

3. On Prices

- (a) Socular tronds in prices by variety
- (b) Seasonal variation in prices by variety
- (c) Present prices at various points of sales by variety

North Africa refers to the following countries: Algoria, Tunisia and Morocco.

⁽¹⁾ The Near Bast in this study refers to the region that comprises the following countries: Libya, Sudan, United Arab Republic (UAR), Jordan, Syria, Lobanon, Kuwait, Saudi Arabia, Qatar, Bahreir, Iraq, Turkey, Iran, Cyprus, Israel.

The above information is either obtained from basic data or is derived from it. Unfortunately, a great deal of the needed basic data is lacking while some of the available ones is inadequate.

Production, trade and consumption of table grapes can be estimated only approximately because of the incomplete treakdown in the statistics of the reporting countries. Moreover, and as mentioned earlier, table varieties can also be crushed for wine or juice or dried, while raisin and wine varieties are commonly eaten fresh. When data on table grapes were not available, they were estimated, where possible, by subtracting the quantities of wine grapes and raisin grapes from the quantity of total graps.

A. PRODUCTION

The annual average production of total grapes in the Near Mast during 1961-1963 amounted to more than four million tens as indicated in table -1. Of this total the average production of table grapes amounted to 303,000 tens or a proportion of only 7.3 percent. In North Africa (1) (in Algeria, Tunisia and Morecee), and as can be derived from table -11, the annual average production during the same period was 2,395,000 tens, of which 149,666 tens were table grape: or a proportion of only 6.2 percent.

Data in Table -11 show the production of total grapes, grapes for wino, table grapes and raisins in producing countries of the Near Hast and North Africa. Among the North African countries, Algeria is by far the largest producer of wine grapes, but only a minor producer of table grapes. In 1963, Algeria produced 1,622,000 tens of total grapes of which 1,597,000 tens were grapes for wine while only 25,000 tens were table grapes. Morocco is the principal producer of table grapes in North Africa; in the same year it produced 91,000 tens or 22 percent of its total production.

In the Near East Turkey is by far the largest producer of total grapes, producing in 1963 2,693,000 tens. Data on the breakdown of this total into the various kinds of grapes are not available. However, it is known that the great majority is intended for raisins. The principal producing countries of table grapes are Syria, Lebanon and Jordan. In 1963 Syria produced 260,000 tens of all kinds of grapes the majority of which was believed to be table grapes. In the same year Jordan and Lebanon produced 57,000 tens. and 51,000 tens of table grapes respectively.

⁽¹⁾ The UAR and Libya are included under the Near Hast.

Data in Table - 12 show the annual average production of table grapes in the producing countries of the Near East and North Africa during 1948-52 and during 1961-63 and the index of change between these two periods. Excluding the UAR, Syria Iran and Turkey for which data are not available, the production of table grapes in the Near East and North Africa has increased by more than two and a half times in eleven years, as is indicated by the totals in the table. The largest relative in rease took place in Morecce and Israel where it amouted to more than 12 times in the former and more than 9 times in the latter. Important relative increases also took place in Tunisia and Jordan where they amounted to almost four and three times respectively. In Lobanon the relative increase was only nine percent.

PRODUCTION OF TOTAL GRAPES , GRAPES FOR WINE, TABLE GRAPES
AND RAISINS IN THE PRODUCING COUNTRIES OF THE RESER
AND NORTH AFRIC. (in 1,000 m.tons)

Country and kind of Grapes	Annual Ave. 1948- 952	1961	1962	1963
U.A.R-(1) Total grapos	79	106	120	105
(2) Grapos for wino		Gard who say a seas		
(3) Table Grapes (a)	========			
(4) Raisins (b)	<u> </u>			
Libya-(1)	5	5	6	
(2)	4	4	5	
(3)	1	1	1	
(4)		-		
Tunisia(-(1)	105	247	306	298
(2)	96	215	270	263
(3)	9	32	36	35
(4)	0.1	0.1	0.1	0.1
Algoria-(1)	1738	2014	1584	1622
(2)	1714	1985	1559	1597
(3)	24	29	25	25
(4)	-	****	-	_
lorocco-(i)	92	368	329	417
(2)	84	268	223	311
(3)	7	85	91	91
(4)	0,1	1.5	1.5	1.5
Syria- (1)	172	243	255	260
(2)	<u></u>			
(3)				
(4)	7.6	11.4	10•4	26.3

(Cont'd on next rago)

Table - 11 (Cont'd)

Country and Kind of Grapos	Annual Avo. 1948-52	1961	1962	1963
Jordan-(1)	27	78	79	59
(2)		-	-	_
(3)	25	76	77	57
(4)	0.4	0.5	0.8	0.4
Lobanon-(1)	81	90	85	90
(2)	30	37	34	37
(3)	46	51	49	51
(4)	0.9	0.4	0.4	0.3
Cyprus- (1)	59	127	130	75
(2)	22			PO1 500 425
(3)	3	7	12	18
(4)	5.0	10.7	6.5	6,5
Iran - (1)	254			
(2)	1	 -		
(3)	·~=	***************************************		
(4)	40.9	61.7	49.9	59.0
Turkoy- (1)	1500	3189	3382	2693
(2)	Martin V Gurd I Abert Mile, St.			
(3)	·		******	d hair Sampania della St. Allester
(4)	12535	310.0	266,5	panish rang yang panggaran
Israel-(1)	15	63	72	59
(2)	7	33	41	30
(3)	3	28	29	28
(4)	1,0	0.4	0.4	0.2

Footnotes on Table-11



- (----) Not available. (-) none or in negligible quantities
- (a) When figures for table grapes were not available, they were estimated by substracting from total grapes, grapes for wine and grapes for raising.
- (b) Quantities are raisins quantities "raisins sees" and not grapes used for raisins.

(Cont'd on next page)

SOUPCES FOR TABLE -- 11

- 1 FAO Production Yearbooks, years 1963 and 1964
- 2 Commonwealth Economic Committee FRUIT, a Review of Production and trade relating to fresh, cannod, frozen and dried fruit, fruit juices and wine (her Majesty's Stationery Office, London, Years 1961 1964)
- 3 Bullotin of Agricultural Statistics No. 1, Ministry of Agriculture, (Boirut, 1963).
- 4- G. Coda Nunziate, Market outlets in Europe for Selected Fruits and Vegetables, FAO Pear Bast Regional Conference on Marketing and Refrigoration of Perishable Produce (Beirut, Lebanon, Sept. 1965).
- 5 The Hashemite Kingdom of Jordan, Ministry of Agriculture, Agricultural Statestics Division, Annual Report for 1963.
- 6 The Hashanite Kingdom of Jordan, Department of Statistics, Statistical Yearbook - 1964. (Department of Statistics Press-Emman.)

<u>Table - 12</u>
<u>Annual Average Production of Table Grapes in the Producing Countries of the Near East and North Africa - 1948 - 1952 and 1961 - 1963 - (in m. tons)</u>

Country	Annual Avo. 1948 - 1952	Annual Ave. 1961 - 1963	Index (1948–52 = 100)
U.A.R.≖	(1)		
Libya	1,000	1,000 ⁽²⁾	100
Tunisia	9 , 000	34,333	381
Algeria	24,000	26,333	1^ა
Morocco	7,000	89,000	1,271
Syria			
Jordan	25,000	70,000	280
Lebanon	46 , 000	50,333	109
Cyprus	3,000	12,333	411
Iran [≇]		dit no in da	
Turkey ≭			
[⊤] srael	3,000	28,333	944
TOTAL	118,000	311,665	264

- (1) Not available
- (2) Two years ave. 1961-1962
- (x) Not included in the total

SOURCE: Derived from table - 11

B. TRADE AND CONSUMPTION

There is no breakdown in the trade statistics of total grapes into table grapes and other kinds of grapes so that trade in table grapes alone is no possible to obtain and can only be estimated approximately. During the period 1961-63 (see table - 15) the annual average quantity of imports of all kind of grapes in all the importing countries of the Near Mast and North Africa was only about 5,540 tons of which about 3000 tons are estimated to have been table grapes (the imports of Lebanon of 2588 tons were all wine grapes). The annual average experts during the same period were only 22,224 tons of which about 12,000 are estimated to have been table grapes. (Experts of algeria, Syria and Turkey are believed to have been mostly of the other kinds of grapes).

Trade in table grapes in this region therefore is not important since the quantity traded is very small and constitutes only a very small proportion of the quantity produced. During 1961-1963 the negligible quantity of annual average imports of 3000 tens constituted a proportion of less than one percent from the annual average production of table grapes, while the quantity of experts of 12,000 amounted to only about two percent of the production. The excess of experts over imports of about 9,000 tens of table grapes [12,000 less 3,000] were experted to the United Kingdom and Europe mainly from Cyprus and Turkey.

Tables 13 and 14 show, respectively, the exports and imports of all kinds of grapes in the various countries of the Near East and North Africal from 1959 to 1963. Not only is trade unimportant for the region as a whole, but also, as these tables indicate, it is minor for all the countries consider d separately. Exports of Cyprus, Lobanon and Jordan are all believed to be table grapes, while these of Syria and Turkey are believed to be mostly of the other kinds.

The none producing countries of grapes like Saudi Arabia, Kuwait, other Pusian Gulf countries and Sudan import only small quantities and therefore have a very low per capita consumption. This is mainly due to, on the one hand, the high prices caused by the high transportation costs to these distant markets, and to the low per capita disposable income on the other. The high perishability of grapes which makes them difficult to transport by cheap means like ordinary trucks and non refrigerated ships is another factor to be considered. The producing countries of grapes in this region seem to be more or less self sufficient. Their production therefore is a good indicator of their consumption.

Exports of Grapes in the Exporting Countries of the Near
East and North Africa 1959 - 1963 (in m. tons)

Country	1959	1960	1961	1962	1963
U.A.R.	62	149	70	47	150
Tunisia	25	9	17	146	19
Algoria	3 , 894	2 , 040	3,100	1,200	500
Morocco	828	808	721	493	255
Syria	5,900	5,026	3,811	4,068	6,636
Jordan	966	753	1,137	1,027	776
Lebanon	413	502	484	880	4,277
Cyprus	4 , 295	4 , 694	4,664	6,709	5 , 364
Turkey	2,036	806	4,226	6,258	٥ , 415
Iran	1,668	i , 511	2,379	1,100	(1)
Israel	447	625	253	340	407

(1) Not available

SOURCES:

- 1. FAO Trade Yearbook, 1963
- 2. Commonwealth Economic Committee Fruits, a review of production and Trade relating to fresh, cannod, frozen and dried fruit, fruit juices and wine (her Majesty's Stationary Office, London, years 1961 64)
- 3. The Hashemite Kingdom of Jordan, Ministry of Agriculture, Agricultural Statistics Division, Annual Report for 1963

Table - 14

Imports of Grapes in the Importing Countries of the Near

East and North Africa - 1959 - 1963 (in m tens)

Country	1959	1960	1961	1962	1963
Sedan	24	85	1:4	145	92
Algoria	447	142	32	(1)	
Jordan	966	614	537	1,443	3; 540
Syria	411	(2)	Marie Agraphy (2)	164	207
Lebanon	5,088	4,236	2,307	2,317	3,141
Saudi Arabia	869	768	ر،ّ8	724	
Kuwait			where the supposed to the supp		and desired land

- (1) (----) Not available
- (2) (____) None or in negligible quantities

SCTRORS:

- 1. FAO Trade Yearbook, 1963
- 2. Commonweal th Economic Committee FRUIT, a review of production and trade relating to fresh, canned, frozen and dried fruit, fruit juices and wine (her Majesty's Stationery Office, London, Years, 1961-64)
- 3. The Hashemite Kingdom of Jordan, Ministry of Agriculture, Agricultural Statistics Division, Annual Report for 1963

Table - 15

Imports and Exports of Grapes in the Near Mast and North

Africa - Annual Average 1961-63 (in m. tons)

Country	Imports	lixports
U.A.R.	(1)	89
Tunisia		61
Algoria	(2)	1600
Morocco	8	490
Sudan	117	
Syria	^(a) 186	4838
Jordan	1840	980
Lebanon	2588	881
Saudi Arabia	800	and the control of th
Kuwait		-
Cyprus	-	5579
Iran	Annual Control of the	(a) ₁₇₄₀
Turkey	The state of the s	5533
Israel	The state of the s	333
TOTAL	5539	22?24

SOURCE: Dorived from tables 12 and 13.

^{(1) (-)}None or in negligible quantities

^{(2) (---)} Not avaible

⁽a) Two years avorage

SITUATION IN EUROPE (1)

Excluding the Soviet Union which is a large importer, the largest increases in the production of table grapes in Europe have occurred in Bulgaria, Italy, Spain, Greece and S with Africa which are all major exporters. Yugoslav production has risen very substantially but exports remain relatively insignificant.

Many varioties of table grapes are grown in F. rope though efforts have been made to reduce their number and to develop early and late grapes to prolong the marketing season. In Italy the Regina remains the principal variety accounting for one third of output and an even higher proportion of exports; Chasselas and many hybrids are also important. In France the Chassolas and the Gros Vert are the principal varieties, eventhough other varicties are increasing in volume. Muscat still accounts for a large part of production in Spain while others of importance include Ohanes, Aledo, and Ras .ti; new varieties introduced from California are also being tried and soedless varieties are being planted to meet the needs of Spanish cannors of fruit cocktail. In Grooce the Rasaki grape is widely grown. Supplies in Yugoslavia consist largely of Smedorovka, a dual purpose grape, and Bolgar; this last one is of great importance in Bulgaria, while in Hungary tho Chasselas is the main variety. Other grapus produced in volume in a number of countries include Museat de Hambourg, Alphonso Lavalle, Dattier, Ideal, Frankenthal and Muscat d'Alexandrie (or Zibibbe) (2).

⁽¹⁾ Most of the information in this section is taken from the paper, Market outlets in Europe for Selected Fruits and Vogetables. Table Grapes by Prof. G. Coda-Nunziante. This paper was presented at the FAO Near Jast Regional Conference on Marketing and Refrigoration of Perishable produce held in Beirut between 20 - 28 September, 1965.

⁽²⁾ Information on varieties taken from: Fruit, a Review of Preduction and Trade Relating to Fresh, Frezen and Dried Fruit, Fruit Juices and Wine, Commonwealth Recommic Committee, Pr. 67,68.

SUPPLYING COUNTRIES OF THE LUROPLAN MARKET

Of the countries supplying the European market, Italy traditionally occupies first place although in recent years has been closely rivalled by Bulgaria in total volume of table grapes shipped. Italian exports to Western European countries have doubled since the late fifties and in 1963 exceeded 200,000 tens (20 percent of total production). In 1963, Bulgarian exports also exceeded 200,000 tons compared with about 90.000 in the late fifties. However, a much higher proportion of Bulgarian production is exportod (from 65 to 70 percent in recent years). From 80 to 85 percent of Bulgarian exports go to the Soviet Union and Hastern Europe while the remainder goos to the Foderal Ropublic of Germany and Austria.

Spanish exports have more than doubled since the early fifties but they tend to fluctuate. They are currently in the neighborhood of 70,000 tens and the major markets are the Federal Republic of Germany, the United Kingdom and the Scandinavian countries. Exports from France, mainly to the Federal Republic of Germany and Switzerland, have fluctuated considerably in kine with production but have been as high as 65,000 tens in the record year of 1962. Romania is another supplier whose experts tend to fluctuate but around a riging trend. In 1962 and 1963 shipments exceeded 50,000 tens, all of which wat to the Soviet Union and Mastern Murope.

Grook exports normally amount to 10 to 15 percent of production and are destined mainly for the Federal Republic of Germany, the United Kingdom and the Scandinavian countries. Under the convention of Association with the HEC (ratified on November 1, 1962), Grocco was given the full benefit of internal tarrif reductions on an initial quota of 15,000 tons to be increased by 20 percent annually up to the end of 1967. Trade has been helped also by liberalization measures applied to extra quality fruit since the end of July of 1952 and to Grade I produce since the beginning of 1964.

traditionally the United Kingdom. Exports have rison gradually in secent years to about 30,000 tons.

The chief expert market for the Republic of South Africa has been

B. IMPORTING COUNTRIES OF EUROPE

Table - 16 shows the annual average not imports of table grapes during 1952-54 and 1961-63 in the various importing countries of Europe. The Foderal Republic of Germany is by far the largest importer its imports accounting for more than 30 percent of total European intake in recent years. This market is followed in order of magnitude by the Sovied Union, the United Kingdom and Czchoslovakia which take 15 percent, 7 percent and 5 percent respectively of the total imports. Countries with relatively high imports are, Poland, Switzerland, and Austria. Imports into Scandinavian countries have risen sharply in recent years.

Table - 16

Annual Average Net Imports of Table Grapes into the Various

Importing Countries of Europe - 1952 - 54 and 1961- - 1963

(in m. tons)

ountry	1952 – 54	1961 - 63	Index of Change (1952-54 = 100)
Germany, Fod. Rep.	81,689	214,548	263
USSR	··	84,067	<u></u>
United Kingdom	30,740	53,987	176
Czechoslovakia	######################################	34 , 038	
Poland	4, 775 ⁽¹⁾	24 , 457	512
Switzerland	14,570	26,831	184
Gormany, Eastern	24,690 ⁽¹⁾	26,248	106
Austria	7,016	25,832	368
Denmark	1,200	6 , 774	565
Finland	675	9,778	1,449
Norway	1,397	10,934	7 ² 3
Swedon	9,916	21,148	213

⁽¹⁾ Average 1951 - 1955

SOURCE: G. Coda - Nunzianto, Market Outlets in Europe for Selected Fruits and Vegetables. Table Grapes, FAO Near East Regional Conference on Marketing and Refrigoration of Perishable Produce, Beirut, Lebanon, 20-28 September, 1965.

During 1961-63, the West German imports have exceeded 200,000 tons per annum. They more than doubled during the mid-fifties but since then the rate of increase has been more gradual. The principal sources of supply are Italy, Spain, Greece and Bulgaria. The rate of increase in imports into the Soviet Union has been remarkable. Total imports rose from less than 40,000 tons in the late fifties to more than 100,000 tons in 1963. The great majority of this increase has been drawn from Bulgaria. Equally remarkable vecreases have been recorded in Czchoslovakia and Poland where the imports ave been drawn from Bulgaria and to a lesser extent from Romania. Hastorn Germany is also a major importor taking annually more than 26,000 tons during 1961-63, mainly from Bulgaria. However imports have been at this level since the early fifties.

DEMAND OUTLOOK C.

In order to indicate the potential domand outlook for table grapes, both extrapolation of por caput consumption trends, and estimates based on income clasticities were used. The results of these two methods averaged out, are presented in table 17 for western European countries. The largest increases are expected in the Federal Republic of Germany where consumption in 1970 could be more than 50 percent above that of 1960-63. The projected rate of increase in Sweden and Austria is also higher than the 37 percent overall avorage, while a lower rate of growth seems likely for France, Switzerland, the United Kinglem and the Netherlands.

Table - 17 Consumption Estimates for 1970 in Wostorn European Countries Average of Extrapolation of Per Caput Consumption and Estimates Based on Income Elasticitics (in 1000m.tons)

Country	Projected 1970 Total Consumption	Indox of Increase (1960 - 1963=600)
Gormany, Fed.Rep.	318	154
United Kingdom	67	126
Swiitzenland	40	133
Austria	36	144
France	271	124
Belgium-Luxemburg	22	137
Notherlands	i3	130
Sweden	28	140
TOTAL OR AVERAGE	795	137

SOURCE: G. Coda-Nunziante, Market outlets in Europe for Selected Fruits and Vegetables Table Grapes. FAO Near East Regional Conference on Marketing and Refrigeration of Perishable Produce, Beirut, Lebanon 20-28 September 1965.

It is extremely difficult to project import demand in the Soviet Union and the other centrally planned economies of Eastern Europe because a great deal depends on political rather than purely economics factors. Nevertheless, the rate of increase since the mid-fifties has been very large and further gains can be anticipated. It would certainly not be unrealistic to expect an increase in net import demand by 1970 of the magnitue of 100,000 to 150,000 tons over the 1960-63 level of about 200,000 tons per annum.

In order to estimate the future imports of table grapes for the various importing countries of Western Europe, domestic production has to be estimated in order that the net import demand can be calculated. In the case of France, by far the most important domestic producor, a 1970 production of 350,000 tons was takon. This ostimate was recently submitted to the OECD Working Party of Fruits and Vogetables. For the other countries, simple graphic estrapolations of production were made. The resulting projections of production and not import demand in 1970 are presented in table - 18 As can be soon, when comparing the results in tables 17 and 12 the imports into the eight Wostern European countries seem likely to increase roughly in line with total consumption. Therefore, in spite of the large expansion of French exports of table grapes, which in 1970 could be some 2.5 times as large as in 1960-63, it appears that the degree of self-sufficiency of the major importing countries of Westorn Europe will not increase. In 1960-63 these countries imported 53 percent of their requirements and in 1970 imports could still account for more than 50 percent of consumption.

Table - 18

Emport Demand in 1970 in the Various Importing Countries

of Western Europe (in 1000 m. tons)

Country	Ave.Net Import	Projected Domestic pro- duction in 1970	Projected import Demand in 19'0	Import Percentage Change over 1960 - 63
Germany, Fed Rep	207	3	315	+ 52
United Kingdom	53		67	+ 26
Switzorland	26	10	30	+ 1 5
Austria	25	1	35	+ 40
France	- (30)	350	(79)	- (163)
Belgium Luxombourg	4	12	10	+ 150
Notherlands	1	10	3	4 200
Sweden	20	_	28	+ 4O
TOTAL OR AVE.	306		409	+ 34

SOLPUD:

9. Coda - Nunziante, <u>Mariot outlets in Europe for Schoeted</u>
Fruits and Vogetables, <u>Table Grapes</u>, FAO Near East Regional
Conference on Marketing and Refrigeration of Perishable
Produce, Beirut, Lebanon 20 - 28 September, 1965

D. EXPORT POTENTIAL OF TRADITIONAL SUPPLIERS

Having made an assessment of potential import demand, it is necessary to look at the other side of the coin, namely supply. It may be useful to consider first whether the potential domand can be fully met by traditional suppliers. French expert availabilities have already been considered, and production and expert estimate, for 1970 are available for Italy and Spain. For the remaining most import European suppliers, graphic extrapolations have been made to estimate the 1970 production. It must be noted that for Mastern Mucopean experting countries a range is given. This is because year to year fluctuations are large and precise lorecast difficult.

For Bulgaria, Rumania, Greeco and Yugoslavia, the proportion of exports from total production in recent years has been 70,35,15 and 5 percent respectively. In projecting export availabilities it has been assumed that these proportions will be approximately maintained. Projected export availabilities for six of the major supplying countries are presented in table - 19.

Table - 19
Projected Export Availability in Major Exporting Countries
of Europe for 1970 (in 1000 m. tens)

Country	Ave. Production 1960 - 63	Ave-Exporta 1960 - 63		1970	Exports percent Incroase
Italy	654	155	1,250	325	110
Spain	2 56	70	370	150	114
Bulgaria	195	142	300-350	210-245	4973
Rum nia	115	42	150-170	55	30
Greece	123	í7	180	27	59
Yugoslavia	206	10	290-300	15	50
TOTAL or Avo.	i, 559	436	3 ,540-2620	782017	79–87

SOURCE: G. Coda-Nunziante, Market Outlet in Europe for Solected Fruits and Vegstables. Table Grapes. FAC Near Mast Hogional Conference on Marketing and Refrigeration of Perishable produce, Beirut, I. Danon, 20 - 28 September, 1965.

As can be seen export availabilities in 1970 could be some 350,000 - 380,000 tons higher than in 1960-63, compared with an estimated increase in import demand of some 250,000 tons from both Western and Eastern Europe. This is a first indication of an balanced increas of supply over demand at constant prices. However, it is interesting to look at the projected import-export picture for the two European regions separately.

It can be realistically assumed that the Eastern European block will continue to derive its supplies mainly from countries within its economic sphere. Since the export potential of Bulgaria, Rumania and Yugoslavia is projected to increase by some 100,000 tons, and considering that other miner suppliers such as Hungary could also increase their exports, it seems that the resulting increase in supplies from this area could be absorbed by the projected increase in demand of some 100,000-150,000 tons

The same cannot be said for Western Europe. Comapred with the projected increase in import domant of 100,000 tens (derived from table-18), export availabilities could well rise by some 260,000 tens. Italian export availabilities alone are projected to increase by 170,000 tens.

CONCLUSION

The various data on table grapes can be estimated only approximately owing to the incomplete breakdown in the statistics of reporting countries. Moreover, in many cases some of the table varieties is in fact used for drying or crushed for wine, while marginal quantities of raisin and wine grapes are frequently marketed fresh.

In Lobanon, a great deal of the data needed for a complete oconomic analysis to determine the future market and price conditions of table grapes is lacking, while some of the available data, especially on production is inadequate and not very accurate.

Based on the available data and according to the analysis made in this study, starting 1966 and until 1971 (1971 included), an additional maximum area of about 420 has can be planted in Lebanon with table grapes every year to meet the internal and expert demands in 1975. Since the consumption of table grapes was obtained by adding not imports to production, then it would be ever-estimated or under-estimated depending on the estimate of production. Consequently, this estimate for future demand would be high or low depending on whether the estimate on production (as reported by the Ministry of Agriculture.) was examples and or under estimated.

The Near East and North Africa are more or less self sufficient in table grapes. The producing countries when considered separately are also self sufficient, while the non-producing ones import very small quantities and therefore have a very low per capita consumption.

Import potential in this region therefore is rather limited and competition with Lebanon is expected from Syria and Jordan where, especially in the latter country, the production of table grapes is increasing at a sizeable rate.

The market outlook for table grapes in Western Europe does not seem to be promising especially for prespective new comers. It may also be further assumed that if supply surpluses appear, EEC producers will press

for more intensive application of the protective devises allowed under the common policy regulations for fruits and vegetables.

Prospects for table grapes in Eastern Europe are rather more favorable and some opportunities for new comers may exist. However, much will depend on political decisions rather than economic ones and those are not possible to forecast.

The following facts about the Lobanese table grape varieties help develop market outlets in Europe:

- 1. Ifayfihy is a firm purple dessert variety maturing at a relatively very late date and available to local consumers as late as February. The fact that it would be available for expert in December, January and February when European demand would be greatest makes this variety particularly valuable.
- 2. Baytamouny is a white dessert grape that matures somewhat carlier than Tfayfihy but nevertheless late enough to be available as late as January. European consumers would thus have a choice of white as well as purple Lebanese grapes.

Grapes are very parishable. Measures, therefore, to prolong their marketing season are necessary to increase demostic consumption and experts. This can be accombished by proper refrigoration which needs to be improved to a great extent in Lebanon.

Republic of Lebanon

Office of the Minister of State for Administrative Reform

Center for Public Sector Projects and Studies

(C.P.S.P.S.)

الجمهورية اللبنانية مَكتب وَزيرُ الدَولة لشوُون الشَّمية الإداريّة مَركز مشارييّع وَدرَاسَات القطاع العَام