CORNELL AGRICULTURAL ECONOMICS STAFF PAPER

SOME ASPECTS OF ITALIAN WINE ECONOMICS

AN OVERVIEW OF THE 1980'S

by
Andrea Segrè
Visiting Fellow
Department of Agricultural Economics
Cornell University

August 1988

No. 88-18

Department of Agricultural Economics

Cornell University Agricultural Experiment Station

New York State College of Agriculture and Life Sciences

A Statutory College of the State University

Cornell University, Ithaca, New York, 14853

It is the policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age or handicap. The University is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

ACKNOWLEDGEMENTS

Funds for this research were provided by the Italian National Research Council (C.N.R.) under Agreement 203-06-4. This publication is the first report of the work accomplished under this project.

Appreciation is expressed to Prof. Gerald B. White for his helpful review comments.

Appreciation is also expressed to the Department of Agricultural Economics of Cornell University for the hospitality and the institutional support provided me while I worked on this paper.

Members of the faculty of the Institute of Agricultural Economics and Policy at the University of Bologna (Italy) were also very helpful in giving direction to the study as well as in providing the data used in this paper.

Table of Contents

		Page
	Acknowledgements Abstract	i
	Introduction	1
1.	The Place of Italy in the World Wine Sector	2
11.	The Structure and the Management of Italian Winemaking Production	4
Ш.	. Grape and Wine Production in the Italian Agricultural Economy	7
IV	Recent Trends in Italian Wine Consumption	10
٧	. Italian Wine Trade	13
V	I. How to Escape a Crisis: Winemaking Policy in Italy	16
	Conclusion	19
	Tables and Figures	22
	Diklingrophy	51

List of Tables

Table No.

- Grape and Wine Production. World, selected years.
- 2. Area planted in Vines. World, 1971-1985, 1986.
- 3. World Wine Trade. 1984-1986.
- 4. Per Capita Wine Consumption. World, 1976-1986.
- 5. Agricultural Firms and Land Surface Involved in the Wine Sector. Italy, 1982.
- 6. Viticultural and Wine Industrial Firms. Italy, 1981.
- 7. Cooperative and Private Production in Winemaking. Italy, wine season 1985/86.
- 8. Gross Saleable Production. Italy, 1980-1986.
- Territorial Distribution of Gross Saleable Production and Regional Specialization in Viticulture. Italy, 1986.
- 10. Grape Production and Utilization. Italy, 1980, 1986-1987.
- 11. Territorial Grape Production and Utilization. Italy, 1986.
- 12. Wine Production. Italy, 1980-1987.
- 13. Territorial Distribution of Wine Production and Regional Specialization in D.O.C. Production. Italy, 1986.
- 14. Number of D.O.C. Wines Recognized by Law. Italy, 1980-1985.
- 15. Qualities of D.O.C. Wines Having a Production of over 100,000 Hectolitres. Italy, 1985.
- 16. Wine Supply Balance. Italy, 1983-1987.
- 17. Per Capita Wine Consumption. Italy, 1975, 1980-1986.
- 18. Consumption and Advertising Expenditure in the Beverage Sector. Italy, 1985.
- 19. Per Capita Purchase of Beverages. Italy, 1986.
- 20. Daily Wine Consumption. Italy.
- 21. Wine Consumption by Type. Italy, 1985.
- 22. Wine Consumption by Type of Case. Italy, 1985.
- 23. Food and Beverage Trade. Italy, 1985-1986.
- 24. Wine Trade. Italy, 1980, 1984-1986.
- 25. Wine Export Markets. Italy, 1984-1987.

- 26. Total Italian Wine Exports into U.S. Market. Selected years.
- 27. Exported Italian Table Wine into U.S. Market and Trend of Market Share. 1980-1986.
- 28. Wine Exportation by Typology and Alcohol Content. Italy, 1984-1986.
- 29. Wine Exportation by Kind of Product and Case. Italy, 1985-1987.

List of Figures

Figure No.

- 1. The Regions of Italy.
- 2. Italy: Principal Producing and Exporting Areas.

Source Notes

Initials used to indicate table data sources are:

FEDERVINI = Italian Federation of Wines

ICE = Italian Trade Commission

IRVAM = Institute for Research and Marketing Information

ISMEA = Institute for Study of Agricultural Markets

ISTAT = Italian Institute of Statistics

OIV = International Vine and Wine Office

Some Aspects of Italian Wine Economics An Overview of the 1980's

by

Andrea Segrè

Visiting Fellow
Department of Agricultural Economics
Cornell University

Introduction

This paper reviews some aspects of Italian wine economics during the 1980's, in a national and international perspective. Its purpose is primarily to provide a regional frame of reference and some up-to-date background information concerning the wine industry, which constitutes about 9% of the agricultural gross saleable production and accounts for 12-14% of food exports. In this sector 11,000 firms, employing almost 38,000 people, produce over 74 million hectolitres of wine per year. The paper also considers the influence of three negative factors which have recently affected the Italian wine sector: the sharply declining U.S. dollar, the dramatic loss of sales in Lambrusco-type wines, and the adverse reaction to contamination-related scandals.

The paper is divided into six sections. The first reports international statistics on grapes and wine, and on world wine consumption as well. The second section describes the structure of Italian winemaking production. Section III focuses on the role of the wine industry in the Italian agricultural economy. The fourth section examines recent trends in Italian wine

consumption. Section V details the market for Italian wine exports, considering in particular the 1985-86 downturn caused by the diethylene glycol and the methyl alcohol scandals; in this section are also shipment tabulations of Italian wines for the first half of 1987. The final section reports the latest measures of winemaking policy undertaken by the Italian Government.

I. The Place of Italy in the World Wine Sector

Wine is the most ancient beverage in the world; there is some indication that the genus *vitis* was already in existence in the Pliocene epoch, from ten to one million years B.C. Wine today is one of the most widely consumed beverages; world production of wine has been more than 300 million hectolitres a year for the last decade. Because of its popularity, it is also an important source of employment and of farm, industrial, and commercial income. Finally it is a primary product for exportation for the major producing countries. In recent years, 15 to 17% of the world production has been exported from the country of production.

With a share of 23.2% of the global market, which is now 331 million hectolitres a year, Italy is the major wine producer in the world today. In 1986, the 77 million hectolitres produced in Italy represented 30% of the European market (269 million hectolitres), compared to 27% for France, the strongest competitor with over 72 million hectolitres (see Table 1).

Italy also has one of the largest land areas planted for growing grape-vines in the world. On average, during the period 1981-1985, in fact, the hectarage devoted to vines accounted for 12.4% of the world total (9.8 million hectares), and 17.5% of the European total (6.7 million hectares). Europe, however, had more than 70% of the total vineyard area, and its

wine production was roughly 80% of the world total (see Table 2).

Italy's position of leadership in production and planted area does not correspond to its rank among world exporters. In 1986 France was in first place with over 13 million hectolitres (28.6% of world exports), compared to Italy with 10.5 million (22.9% of world exports) 1/. To be sure, 1986 was a bad year for other wine exporters: Spain suffered a 18.8% decline, Germany 13.1% (on a volume basis). However, the decline may have seemed especially dramatic for Italian vintners, who over the previous two decades had grown accustomed to uninterrupted increases, while other nations showed much more modest growth interrupted by occasional declines (see Table 3).

Despite the general improvement in grape yields and the increase in wine production brought by changes in production technology 2/ the trend of world wine consumption has suffered a 13.6% decline in the last ten years. A drop in per capita consumption has touched all the countries that can be considered large consumers (over 50 litres per year), with the single exception of Portugal (see Table 4). This phenomenon is confirmed in France, Spain, and Argentina, as well as in Italy. In contrast, increases have been registered, at times to a considerable degree, in those countries where consumption is moderate (less than 15 litres per year) and/or characterized by high or very high levels of per capita income, such as Switzerland, the USA, Canada, Australia, and the United Kingdom.

^{1/} During the early 1980's, however, Italy was first in world wine exports, with a share of 32-33%, compared with France's 21-22%.

^{2/} In recent years the EEC has adopted a series of abandonment measures aimed at reducing the area under vines and thus correcting the market imbalance. The outcome of these measures will be a drop in production of table wine by 1992 to 90-95 million hectolitres, a slight rise in production of quality wine to around 45 million hectolitres and stabilization of production of other wines at a level of 10 million hectolitres, giving an estimated total production figure of 145 to 150 million hectolitres in 1992.

To some extent these trends can be explained by various social, political, and cultural factors (see also section IV). However, the figures, even though not supported by a sociological behavior analysis, seem to give credence to an interpretation based on a generalized convergence in the models of behavior. If so, then possible causes of Italy's drop in consumption could be extended to most of the traditional wine producing countries.

From this outline of worldwide consumption trends it seems that large changes in consumption can occur (albeit over long periods of time) with major consequences for the viticultural economy of the countries concerned. These consequences are especially critical when viticulture is of primary importance in the country's agriculture, as it is in Italy.

II. The Structure and the Management of Italian Winemaking Production

The productive structure of the Italian wine sector is very diffuse and the management of the grape farms is organized in different ways according to the region and the type of product.

Italian wine production is spread throughout the country (see Figure 1). The Agricultural Census of 1982 reported almost 3.2 million agricultural firms. More than 50% cultivate vines and, of these, 106,000 produce D.O.C. wines 1/.

1/ D.O.C. and D.O.C.G. wines ("Denominazione di Origine Controllata e Garantita") mean "quality wines produced in specified regions" (psr), and meeting the requirements of Regulation EEC n. 823/87.

Most of Italy's wine is produced on small or very small farms, 55% of which are located on hills and 26% on plains. The average size is only 0.82 hectares (see Table 5). The Industrial Census, moreover, indicates more than 11,000 wine producing firms, of which about 85% are organized in conjunction with agricultural production 1/. The remaining firms are industries with no agricultural component and produce only wine. Total employment in the viticultural wine sector is about 38,000 (see Table 6).

The land surface involved in viticulture was just 7% of the total agricultural area in 1982, and for the D.O.C. production only 1.3% (or 18.2% of the viticultural land surface). Since 1982, however, the area for production has decreased in response to declining prices. In 1986, the total viticultural surface was 1,070 million hectares, 982 thousand of which was in wine grapes and 85,000 in table grapes. In contrast, the area designated for D.O.C. wines was well over 250,000 hectares, with an increase of 102% over 1982.

These figures, however, do not accurately represent the real situation. Because of the number of small or very small operations whose activities escape the notice of the census, the characteristics of the sector are not precisely definable and quantifiable. In other words, there is good reason to believe that in the wine sector there is a significant percentage of productive units and of labor forces engaged in "submerged" activity, for the most part characterized by the model of small-scale production which is consumed at home or outside normal marketing channels. Nevertheless, the data described so far on one hand reveal the degree of organization of the productive activity, and on the other usually reflect the different qualitative characteristics in any one locality.

Another interesting way to look at Italian wine production is to consider the forms of management. The organization of the productive activity varies according to the type of product and the area of production. Approximately 30% of all wine is produced by privately owned wineries which produce most of the country's higher quality wines. The areas with the oldest wine tradition and having limited and high quality output such as Piedmont, Friuli-Venezia Giulia, and Tuscany are organized on a firm by firm basis. They tend, moreover, to increase the value of their cultivation through direct marketing.

In contrast, cooperative organizations are an important presence in Italian common table wine production (see Table 7) 1/. During the wine season 1985/86 there were 938 cooperative wineries having almost 400,000 members and a total cellar capacity of 60 million hectolitres, amounting to over 78% of the total Italian wine production. In the same period, 38.7% of Italy's wine grapes and 66% of the total wine were produced by members of cooperative wineries.

The number of cooperatives varies, however, according to the geographical area with Puglia and Sicily in the south having the most cooperatives. In northern Italy cooperative wineries are relatively strong in two exporting regions, Veneto and Emilia-Romagna. In this last region, cooperatives account for more than one half of the total wine production

1/ In Italy, cooperative wineries generally belong to one of 3 federations:

a) The "Lega Nazionale delle Cooperative" (the "red" coop because it's linked with the Communist or Socialist Party).

b) The "Federazione Italiana delle Cantine Sociali" (the "white" coop because it's linked with the Christian-Democratic Party).

c) The "Associazione Generale delle Cooperative".

with 84 cooperative wineries, 51,000 members, and a total cellar capacity of over 8 million hectolitres. This is the region where Cantine Riunite, the world's largest cooperative group and probably also the world's largest wine exporting firm, is located.

III. Grape And Wine Production in the Italian Agricultural Economy

The role of the wine sector in the Italian agricultural economy varies remarkably according to the kind of production, the region, and the year as well. For the most part, regional specialization - both in viticulture and in wine production - does not correspond to the quantity of grape and wine production.

Between 1980 and 1986, the proportion of the viticultural gross saleable production (G.S.P.) 1/ to the total G.S.P. of the agricultural sector was 8.6% on the average, varying in a range from a maximum of 10% to a minimum of 7.6%. A strong increase in value was recorded in 1982, 1983, and 1986 and a weakening in 1981, 1984, and 1985 (see Table 8).

In 1986, the last year for which data is available, the territorial distribution of the wine producing saleable production shows a strong degree of concentration (see Table 9 and Figure 2).

^{1/} The gross saleable production is calculated by multplying total domestic agricultural production times sale prices.

Five regions: Emilia-Romagna, Lombardy, Apulia and Sicily furnished over 60% of the value of the gross national saleable production. The coefficient of specialization in viticulture 1/ reveals that among the bigger producers Friuli-Venezia Giulia is in first place with a value of 5.3, followed by Veneto (5.2), Liguria (5.0), and Trentino Alto Adige (4.7).

An analysis of the type of grape produced and utilized in 1986 shows a drop in grape production of over 12% respect 1980. This decrease was entirely due to a 15.9% fall in numbers of wine grapes from 13.2 million tons to 11.6 million, while the table grapes increased over 19.1% (see Table 10). In 1986 over 70% of table grapes was destined for direct consumption, while the rest (466,000 tons) was made into wine (with the exclusion of small quantities for raisins). The grapes used for wine in 1986 were over 10.2 million tons, with a decline of 15.1% since 1980.

The latest figures for 1987 confirm a decline since 1986, both for vinification (-3.3%) and wine produced (-5.4%). The yield (the ratio of grape to wine), 0.75 in 1986, had increased by over 5% since 1980, but dropped by 2.6% from 1986 to 1987.

An examination by territory shows a concentration of grape production. Four regions, in fact, furnish almost 60% of all the total Italian grapes. These are: Apulia with 2.6 million tons, Sicily 1.9, Veneto 1.2 and Emilia Romagna 1.0. These regions differ, however, in the proportion of wine to table grapes. The latter represents an extremely significant part of total table grape production in Apulia, Abruzzi and Sicily. In Apulia table grapes make up 40% of total grape production, while Abruzzi and Sicily comprise 28.9 and 21.6 of this production respectively (see Table 11 and Figure 2).

^{1/} Ratio between gross saleable production with respect to regional gross saleable production, and with respect to the national total.

Italian wine production in the 1980's has averaged around 74 million hectolitres per year with a high point of over 86.5 million in 1980. During the period of observation (1980-1987) overall wine production dropped by 15.9%, and by 6.4% for the D.O.C wines. The latter represented for the same period 11% of total wine production averaging 5.1 millions hectoliters per year (see Table 12). The regions which furnish the greatest contribution to total wine production are both in southern and in northern Italy. In the south Apulia has an 18.7% share and Sicily has a share of 16%. In the north Veneto's share is 11.9% and Emilia-Romagna has a 10.6% share (see Table 13).

The situation is very different taking in account the D.O.C. production, which is concentrated in north-central Italy (89.6%). In this case, about one half of the production involves only three regions: Veneto with 21.8%, Tuscany 13.9%, and Piedmont 13.2%. The concentration of D.O.C. wine production, calculated on the coefficient of specialization in D.O.C. production 1/, reaches the higher values also in this case for Friuli-Venezia Giulia and Umbria with 7.9, followed by Trentino Alto Adige 5.7 (see Table 13).

An indication of the tendency toward specialization of D.O.C. wine production comes, morever, from the number of D.O.C. wines recognized by law, rising from 619 in 1980 to 797 in 1985, and for sparkling D.O.C. wines from 52 to 71 (see Table 14). However, these increases seem to have no effect on the amount of D.O.C. wines produced 2/. This fact emerges indirectly from the figures presented in Table 15, which reports

1/ Ratio between the proportion of D.O.C. on total regional wine production, and the proportion of D.O.C. on total Italian wine production.

^{2/} This phenomenon could be explained by the limited quantity of each D.O.C. area's production, even including those most recently recognized.

those qualities of D.O.C. wines having a production of over 100,000 hectolitres. This is the case of only 18 D.O.C. wines of the 216 recognized and, together, they represent 62.1% of the total. The remaining 37.9% is divided among the other 198 qualities. None of these is produced in high producing regions like Apulia or Sicily. Among the wines that account for a greater part of the total volume is Chianti with 894,100 hectolitres, corresponding to 11.4% of the total of D.O.C. wines in 1985, Moscato d'Asti, 8.1%, Valpolicella, 5.4%, and Soave 4.5%.

IV. Recent Trends in Italian Wine Consumption

Although consumption differs according to type of wine and the sex, age, and geographical location of the consumer, wine is still the beverage in highest demand for a large part of the Italian population. Over the course of the time, however, the trend of wine consumption has been in decline.

In the 1986-87 wine supply balance, the relative share of domestic consumption was equal to 61% of available supplies, exports accounted for 12.6%, and for the first time the stock variation was positive 1/ (see Table 16).

In contrast to 1983-84, the data for 1986/87 show a significant decrease of 23.6% in the share of direct consumption, as well as the drop of 18.5% in

^{1/} Difference between the beginning of year stock and the end of year stock (both calculated on August 31).

exports 1/. Between 1983 and 1986 the quantities distilled under the EEC regulation, which accounted for 23 to 32% of the domestic wine consumption, dropped from 22 to 12 million hectolitres. The trend of the self-sufficiency degree was declining (-23.4% between 1983 and 1987), but the index is always well over 1.

The decrease in direct consumption of over 16 million hectolitres is due to a significant 11% reduction in per capita consumption: from 91 litres per capita in 1983, to 81 litres in 1986 (see Table 17).

Many important reasons explain this declining trend in Italian wine consumption and wine consumption in other countries as well (see also Section I). In summary these reasons are:

- the exodus of the rural and agricultural populations into urban areas;
- the consequent change in life style supported by improved incomes;
- misleading information about the authenticity of wine or its effect on health;
- the competition with other beverage products such as soft drinks and beer resulting at least in part due to extensive advertising 2/; and
- a greater propensity of consumers to spend their money on other goods.

^{1/} Since Italy has traditionally been one of the world's greatest wine producers, in both quantity and variety of types, wine imports have contributed only a small part (0.8%) of the total available wine. However, between 1980 and 1987, while production declined by 11%, Italian wine imports increased.

^{2/} Competing beverages are much better advertised than wine products. For example, the investment in advertising for soft drinks is over three times higher than wine (See Table 18).

In terms of per capita purchase, however, wine still represents the preferred beverage in the Italian family budget, with a ratio of almost 3:1 over mineral water, and 5:1 over beer (see Table 19).

The distribution of this beverage throughout a large part of the population is shown in Table 20, which reports the results of a recent marketing analysis on daily wine consumption sponsored by the Italian Federation of Wines (FEDERVINI). Almost 65% of the population drink wine, with an average daily consumption of 0.38 litres by those who drink it.

Consumption varies significantly according to sex, age, and geographical location of the consumers. Over 76% of men consume wine compared to 53.5% of women. Older consumers (population over 55) drink more wine then younger consumers (age group 18-24). The greatest amounts are consumed in central and north-eastern Italy (0.28-0.30 litres per capita daly), while the lowest amount (0.22 litres) is consumed in southern Italy.

Wine consumption also differs according to type. The Italian consumer prefers red wine (62%, over 1.2 million litres), rather than white (29%) or rosé (only 9%) (see Table 21). Fifty four percent of wine is sold, moreover, in demijahn (bulk), 43.4% in bottles (especially 1.5 and 2.0 litres), and only 1.9% in cartons or cans in spite of strong mass media advertising by large companies especially aimed at younger people, who have been turning to other beverages (see Table 22).

V. Italian Wine Trade

Italian wine trade experienced a downturn in 1985/86 because of the combination of the well-known contamination scandals and the depreciation of the U.S. dollar against the Italian lira. The drop in Italian wine exports affected all the export markets as well as all types of wines to the same extent (it was less severe only for the vermouths). However, the performances of the Italian wines during the first half of 1987 indicate that their decline has been arrested.

Most export wine originates in four of Italy's 22 regions (see Figures1 and 2). Veneto and Emilia-Romagna located in the north and Apulia and Sicily in the south. Together these regions produced 57.2% of the total 1986 production. The two southern regions export mostly high alcohol content, bulk wine for blending, while the north accounts for most of Italy's bottled wine exports 1/.

During the first half of the 1980's, Italian wine exports grew moderately until 1985, when the proportion of wine to total food exports reached 14.2% (on a value basis) (see Table 23). 1986 represented, however, a year of change with a reduction of 27.6% in volume and 25.8% in value (from 16.8 to 10.5 million hectolitres, and from 1.5 to 1.1 billion lire) (see Table 24) 2/.

The slide in export figures can be directly attributed to the scandals of wine contamination with diethylene glycol (autumn 1985) and with methyl alcohol (beginning of 1986), which for some months completely blocked

^{1/} Northern producers often utilize some southern wines, especially from Apulia, for blending into their own wines.

^{2/} The loss in value was lower than this in quantity because of the general increase of prices (18.9% on the average) and the relatively minor decrease registered by the premium wine.

exportation and consequently reduced the total flow to a large extent. However, the decrease in sales of all imports must be blamed in part on the weak dollar. When imports are more expensive, demand for them usually slackens.

Between 1984 and 1986, Italian wine exports recorded a drop in quantity of 30.4% in the EEC market (which covers 72.7% of the export market), and of almost 40% outside the EEC area (see Table 25). Within the EEC, wine exports to France (44% of the total market in 1986) dropped by 38.3% and wine exports to Germany (39% of the market in 1986) decreased by 25%. The only exception to this were the flows to the United Kingdom, which increased over 30% between 1984 and 1986. Within the non-EEC countries, apart from the almost complete cancellation of the flows to the USSR, the drop of 40% in exports to the USA was the most dramatic (over 50% of the Italian exportation outside the EEC area).

The decline in sales of Italian wines in the U.S. began in 1984, but it was not untill 1985/86 that significant movement occurred, with sales down by 32% on a volume basis. Then, in 1986/87 the disaster: buffeted by a declining dollar, by adverse publicity surrounding contamination scandals, and by a loss of sales of semi-sparkling wines - principally Lambrusco and its white and rosé counterparts from Emilia Romagna 1/ - to American produced coolers, sales of Italian wines declined by 23.6%. For the first time since the late 1970's Lambrusco boom, Italy failed to account for more than 50 percent of the total wine imports into the U.S. (see Table 26). In 1986 Lambrusco-type wine plunged 46.3%, with the white wine segment dropping 37.3% and the reds all but collapsing with a 58% decrease.

^{1/} U.S. import statistics consider Lambrusco as a still "table wine" whereas Italian export statistics class it as "semi-sparkling" or effervescent wine.

The non-Lambruscos suffered as well, but the decline was less steep (12.1% of their volume) and for the first time they outdistanced the Lambrusco (8.7 million cases to 7.9 million) (see Table 27).

Finally, even looking at the alcohol content, the Italian export recorded in quantitative terms drops which ranged from a minimum of 10.6% for wines with a high alcohol content (over 15%) to a maximum for wine between 13 and 15% (59.5 percent) and non-concentrated musts (43.9 percent), see Table 28. Only the D.O.C. wines and in general the bottled wines (cases less than 2 litres) were less affected by the reduction in export (see Table 29) 1/.

If 1985 marked a downturn in Italian wine export, 1986 accentuated it. Unfortunately the trend also carried over to the first half of 1987. The trade remained lower than that of the same period in 1984, and very far from the figures of 1985. However, there was a general improvement (1.8% on a volume basis) compared to the first six months of 1986, in particular for the D.O.C. wines, both regular and sparkling, which recorded an increase of 6.9% and 12.9%, respectively.

^{1/} The analysis of the average prices (valued in terms of the ratio value:quantity), though they are approximate, explains the differences between the figures expressed in monetary terms and those expressed in quantity. Observing the data reported in Table 29, it is possible to understand the complex mechanism of the 1986/87 season for the various types of wine in terms of volume, value, and average price.

VI. How to Escape a Crisis: Winemaking Policy in Italy

The recent reduction in Italian wine exports, resulting from the adulteration scandals and the steep decline in domestic consumption, raises anew the need to assure both the purity and the quality of the product destined for domestic and foreign markets.

Although wine is still the beverage in highest demand, there is an increasing necessity for a quality product, capable not only of meeting new tastes on the market, but also of dispelling residual doubts left by the adulteration scandal. The Italian wine industry is attempting to confront this situation with imaginative marketing techniques like bottling wine in cans, new products such as flavored wines, export promotions (in 1986 the Italian Trade Commission spent \$1,991,300 advertising wine in the U.S.'s mass media), as well as efforts to obtain reductions in consumption taxes on wine in other countries 1/. The Italian Ministry of Agriculture and Forest (MAF) 2/ and the Union of the Italian Chamber of Commerce (Unioncamere) 3/ are also engaged in this effort, assuring careful control over production and prevention of contamination.

^{1/} Many countries, especially European nations such as United Kingdom, Ireland and Denmark place havy taxes on wine consumption. These taxes bring the price of wine up to two to five times as high as the Italian price.

^{2/} The MAF has, among its institutional duties, the coordination of the service of the repression of contamination for musts, wines and vinegars (both preparation and trade), as well as the protection of the "quality wine psr".

^{3/} The Unioncamere keeps the register of high - quality oenological lands, those of the tasters (sommeliers), and the National Register of Vineyards.

The three main measures of winemaking policy recently undertaken are as follows:

1. The Revision of the National Register of Vineyards

The National Register of Vineyards, instituted in 1967, requires the reporting of those grapes destined for the production of wines with a denomination of origin "controlled" or "controlled and guaranteed" (D.O.C. and D.O.C.G.). The importance and the relevance of the problems of Italian winemaking have revealed the necessity for more frequent and accurate verification of the National Register in order to make it an efficient instrument of control for the marketing of high-quality wines. In this regard, the Unioncamere considers indispensable the extension of the national computer network of the Chambers of Commerce already established for keeping these registers. A revision of the Register of Vineyards seems to be necessary, however, to adopt new criteria for classification of quality wine. This revision is necessary to permit a clearer knowledge of the elements which differentiate the products, both for the producers and the consumers.

2. The Modification of the Service for the Repression of Adulteration

The action undertaken by the Commission and by the Technical Committee for Winemaking of the Unioncamere, following the episode of methyl alcohol, merits special consideration. The relevant draft document contains a series of proposals of normative and technical character, and follows the developments of the Law Decree n. 282/1986 on the urgent measures of prevention and control of food adulteration coordinated with

conversion law n. 482/1986. This law, in particular, makes use of an amendment proposed by the Commission of Unioncamere and adopted by the legislative office of the Italian Ministry of Agriculture, under which (art. 8) the chemical commercial laboratories of the Chambers of Commerce were included among those authorized to conduct routine analyses of wine.

3. The Institution of a Computerized System

The computerized data firm of the Chamber of Commerce (CERVED), has already released software which allow a mechanized management of the National Register of Vineyards and of production of D.O.C. and D.O.C.G. wines 1/. Presently, this system is utilized by 10 Chambers of Commerce 2/ for a total of nearly 55,000 winemaking firms.

The computerized system permits the management of the registration lists, management of grape reporting, and control of information concerning the wine in storage. The short-term objective of the CERVED is to extend the application of the "subsystem for D.O.C." wines to all the Italian Chambers of Commerce, covering thus all the approximately 200,000 winemaking firms registered in the D.O.C. lists. Wines with a denomination of origin presently represent only 10-12% of the entire domestic wine production. As a result, the greater part of common wine production escapes any systematic survey. CERVED's computerized system allows the reporting of total area of vineyards, the reporting of grape production, of

1/The name of this data bank is SDOC, the acronym for subsystem for D.O.C. wines.

2/ Alessandria, Asti, Cuneo, Florence, Pavia, Reggio, Turin, Treviso, Venice, Vicenza.

wine production, and of transports, sales, and warehousing of the finished product. A system of this kind would permit access to precise and up-to-date information at all times and in all parts of Italy, as well as verification of the various steps that are taken from the vineyard to the consumer.

Conclusion

With a share of almost one fourth of the global market, Italy is the leading wine producer in the world today. However, the continually increasing production due to increasing yields in the face of a steep decline in domestic consumption, and the recent decrease in exportation resulting from adulteration scandals and from the depreciation of the U.S. dollar, reveal the deep crisis in this sector.

In recent years the Italian wine industry has in fact shown many elements of weakness and fragility, which can be summarized as:

- a grape farming structure which, although dynamic, is still responding slowly to European directives aimed at having larger farm sizes to accommodate the increasing cost of machinery and inputs;
- skewed regional production which brings about problems of regional difference that hamper and prevent the employment by the government of the same policy tools throughout Italy;
- a high concentration of vineyards on the plains where climatic factors make it difficult to produce quality wines;

			•															
Composition	1986	81.3	23.2	21.7	2.3	0.6	12.9	رم ص	9.9	8. 8.		0.5	6.0	Č	- c		1.0	100.0
nectolitres)	1986	269,584	76,987	72,020 35,556	7,715	30,000	42,907	17,700	21,767	12,460		1,800	2,861	380	3,856		3,292	331,668
Wine (1,000 hectolitres)	(2) 1985	242,368	62,340	70,055 33,103	9,893	26,500	47,403	18,100	18,463	12,329	0 0	000,0	5,030	380	3,986	c c c	308 016	000,010
_	1979-81 (277,650	80,300	41,420	007,11	32,000	50,780	16,780	23,040	11,410	2.740	370		4,190	3,750	3.750	346.280	
Composition (%)	300	58.0	17.4	8 -	۷ .		4:01	7.6		3.9	0.7	12.0		4.9	1.3	t.3	100.0	
00 tons)		38,857	11,662	5,788 1,100	5,077	10.337		5,077 2,750		6,034	465	8,018		3,300	903	865	66,990	
Grapes (1) (1,000 tons) (2) 1985 1		32,627	9,748	5,345 1,150	5,744	10,089		5,127 2,279	2.465		469	7,927	,	3,300	932	890	59,665	
1979-81	000	30,323	12,396 10,470	1,570	6,648	10,179		4,549 3,230	2,260		398	7,308	c c	3,600	814	775	66,192	-
Countries	Europe	of which:	Italy (3) France	Portugal	LESSH	America	Or Writch:	USA Argentina	Africa	of which:	Algeria	Asia of which:	Turkev	6	of which:	Australia	Total World	

Source: FAO Production Yearboock.

(1) Table Grapes and Wine Grapes.(2) Averages.(3) ISTAT.

1986	70.9	1.1.	16.7	12.7		. 8.	3 3.7	2.0 1.8	4.9	8.1 6.7	0.7	0.7 0.7	100.0	
Composition (%)	7976-80 193		13.0 12.0 16.8 3.8	13	9.3	3.0 3.4 3.2	4.3 4.3	2 1 . 2	2	7.8	0.7	0.7	100.0	ν.
1986.	1986 1971-75	6,687 71.4	1,048 13.2		840 8.8	320 2.8	265 3.2			1,400	630 8.4 75 0.7	62 0.7	6	
nes. World, 1971-1985 (1), 1986.	Hectares (1,000) 076-80	7,304 6,944		•	1,268 1,333		350 314	443 423	211 195	1,451 1,465	794 794	71 73	68 67	
Area Planted in Vines. World,	Table 2	Countries 1971-75 1		France 1,317 Spain 354 Portugal	₹-	America 876 of which:	USA 280 Argentina 323	Africa 490	of which:		of which: Turkey 838	Oceania 69 of which:		Total World 9,961

Source: OIV Bulletin, FAO Production Yearbook, and EUROSTAT.

(1) Averages.

World Wine Trade. 1984-1986.

Fable 3

	Composition (%)	906	22.9 28.6	12.1 3.3	5.5	, t	9.0	; u	S: 0.0	0.0	100.0
ļ		10 510	13,082	1,501	2,538 74	645	272	1,600	-	110	45,819
	Export (1,000 hectolitres) 1985 1986	16,847	11,892	1,417	86	140	226 :	1,681	1-	88	55,005
(9)	1984	15,751	6,641	1,481 3,143	89	170	234	1,630	-	0.6	23,001
Composition (%)	1986	- 6 5. 4.	0.0	19.7	D. (6. °	3.0	: .	8. °	100.0	
980	1	4,141	3 9 8	8,695 6,154	2.345	3,874	1,382	: %	194	44,245	1.
Import (1,000 hectolitres)	719	6,977	- -	5,835	6,786	5,080	1,421	508	189	53,127	
1984	146	5,912 19	9,239	5,658	7,257	5,313	:	560	145	51,190	Sarbook
Countries	Italy (1) France	Spain	Germany	United Kingdom	USSR	USA Canada	Algeria	Japan	Australia	lotal World	Source: FAO Trade Yearbook

Source: FAO Trade Yearbook.

(1) ISTAT.

Table 4 Per Capita Wine Consumption (1) World, 1976-1986.

Table 4	•			4005	1986
1	976-1980	1983	1984	1985	1300
Countries					
West Europe					_
Italy France Spain Portugal Germany United Kingdom Greece Danemark Switzerland	93.4 98.2 59.9 77.1 24.4 6.1 44.5 12.1 47.0	91.1 85.0 49.5 82.1 26.5 8.0 36.9 16.7 48.0	85.5 83.0 50.1 81.0 25.7 9.4 33.6 18.1 49.0	81.7 79.9 48.8 81.5 25.5 10.0 31.3 20.0 52.0	81.0 78.4 45.0 23.3 9.9 37.9 19.5 47.8
East Europe USSR Romania Ungheria	13.6 31.4 33.6	13.3 35.0 35.0	14.5 35.1 25.6	15.0 35.5 23.0	 23.2
America USA Canada Argentina Chile Uruguay	7.3 7.2 81.4 47.0 29.2	8.6 9.5 71.1 43.2 30.1	9.0 9.8 66.3 40.0 29.6	9.2 9.5 60.0 39.0 29.2	9.3 9.3 59.7 35.0
Oceania Australia	16.3	20.2	21.5	21.9	21.3
	6.6	6.0	5.9	5.7	4.5
Total World	0.0			 -	

Source: Wine Institute, EUROSTAT, and ISTAT.

(1) Litres/Year

Figure 1 The Regions of Italy



Table 5 Agricultural Firms and Land Surface Involved in the Wine Sector. Italy, 1982.

	Total	Firms with	Viticultura	al Land Surfac	e
	(1,000)	Total (1,000)	%	DOC W (1,000)	ines %
Agricultural Firms (number)	3,197	1,628	50.9	106	6.5
Land Surface (hectares)	15,989	1,133	7.1	206	18.2
Average Size (hectares)	5.00	0.70	-	1.94	<u>-</u>

Source: ISTAT, 2 Agricultural Census, 1983.

Table 6 Viticultural and Wine Industrial Firms. Italy, 1981.

-	F	irms
	number	employees
Wine Production & Storage:		
- in conjunction with agricultural - industrial	9,836 1,611	23,226 9,222
Sparkling Wines Production:		
 in conjunction with agricultural industrial 	165 284	697 4,766
Total	11,896	37,893

Source: ISTAT, 6 Industrial & Commerce Census, 1982.

Cooperative and Private Production in Winemaking. Italy, wine season 1985-86.

Table 7

(continued on next page)

																				٠											
Grape I Itilized	of which produced	by members (tons)		145,430	:	35,810	128,360	501,090	41,400	344,780		1,196,870	1	016,89	54,790	141,540	230,270		495,110		355,950	36,190	32,680	702,590	:	4,530	916,470	171,100		2,219,510	3,911,490
Gre	Total	(tons)		151,390	: 0	44,930	133,290	528,880	44,750	347,690		1,250,930	000	00,000	59,040	143,990	233,840		505,670		356,350	37,190	32,940	718,540	: (20,040	919,530	171,340	1000	2,255,930	4,012,530
Total Celiar	Capacity	(hectolitres)	0 704 700	2,731,100	; 000	1 053 100	1,004,100	770,000	008'8//	8,693,300	22 706 000	25,700,000	1,931,900	200,007	198,000	1,857,500	3,464,500	- 1	8,061,900	000	0,007,000	424,800	006,866	9,138,900		423,100	11,787,900	3,156,700	20 170 700	53,170,700	60,026,600
Cooperative Wineries		(members)	18 700	2,5	. S. S.	000	0000	14,100 100) ;	51,100	132 400	021,70	10.800	6 400	1, 1) () () () () () () () () () () () () ()	13,500	10 100	44,100	17 100	000+	, c	0,000	000,89	1 400	004,78	007,70	24,100	204 400		378,900
Coop		(number)		. 4	25	34	7.5) en	, 4	84	309		31	13) (• α;	- 4	o t	121		37	ູ່ ແ	ο σ	940	۷ ۲ ۲	, ,	000	5 0	70	508		938
Private Producers		(number)	25,198	3,533	8,081	529	15,986	6,116	2,448	18,820	74,730		23,854	10,652	17.960	10.834		63.300		4,315	412	4.530	7 883	1.410	1,451	7.418	, r.		31,539		169,569
	Regions		Piemonte	Valle d'Aosta	Lombardia	Trentino A. A.	Veneto	Friuli V. G.	Liguria	Emilia Romagna	North		Toscana	Umbria	Marche	Lazio		Central		Abruzzi	Molise	Campania	Puglia	Basilicata	Calabria	Sicilia	Sardegna	•	South & Islands		Italy

Source: Elaborations of data from ISTAT.

Total Private of wich: Producers 3,630 2,496 32 1,446 1,090 477 6,766 6,297 6,506 2,559 6,506 1,121 2,606 1,121 8,067 4,693 8,067 4,693 1,04 6,8 1,446 2,844 2,146 1,99 1,446 2,844 2,16	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			
Priduce Produce 3, 2, 4 47, 2, 9 6, 6, 6 6, 6, 6 7, 7 7, 4, 7 7, 7 7, 7 7, 7 7, 7 7, 7 7	*			
2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	rate ers (1)	Percentage of Total	Cooperative Wineries	Percentage of Total
2, 9 4, 4, 4, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	96	8.89	1,134	31.2
2,9 6,0 6,0 1,0 1,0 1,1 1,0 1,1 1,0 1,0 1		94.1	۵	ი ე ე. ე.
2,9 6,6 6,6 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	060	75.4	356	24.0
2,9 6,6 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	477	34.1	421	65.9 F 7
8 2, 5 1, 1, 1, 3 3 4 4 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	997	44.3	3,769	7.00
2, E 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	602	65.8	313	0. 1. t. t.
2,5 3, 3, 4, 1, 6, 1, 6, 1, 7, 7, 7, 7, 7, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	63	96.9	2	. C H
3 4 4 1, 17, 17, 17, 17, 17, 17, 17, 17, 17,	2,559	49.2	2,64/	0.00
2,560 2, 3 918 3 1,983 1, 1,983 1,2,606 1, 8,067 4,4 4,192 4,192 4,188 4,563 4,146 1,446 23,917 7		0	8 640	47.2
2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10,221	52.8	200	
	177	85.0	383	15.0
	_ L	419	533	58.1
4 4 -	300	0.0	973	49.1
, 4, 4, -, ,) 		1 485	57.0
4 4 7	,121	43.0		
4 1 1	4.693	58.2	3,374	41.8
7		9 7	2,383	83.1
4 1 7	485	. o. i	180	94.8
1 4 7	10	5.7	30-C	62.3
4 -	180	37.7	104	57.4
-	4,072	42.6	. dt.c	34.6
	89	65.4	5 t	68.7
	70	31.3	1 - 1	78.2
7	993	21.8	00.1	1.08
7	284	19.6	7,182	
~ 	1 4 8 9	29.9	16,843	70.1
	7 202	33.9	28,857	66.1
51,345	١-			i

Figure 2 Italy. Principal producing and exporting areas.



Table 8 Gross Saleable Production. Italy, 1980-1986.

	Agricultural GSP	Vitio	cultural GSP
Years	Lire (billion)	Lire (billion)	Percentage of the total AGSP
1980	29,701.3	2,962.7	10.0
1981	33,744.4	2,480.5	7.4
1982	38,049.7	3,295.2	8.7
1983	44,785.6	4,237.3	9.5
1984	46,219.5	3,524.6	7.6
1985	48,837.8	3,725.8	7.6
1986	48,789.4	4,678.8	9.6
Average		0.559	8.6
(1980-86)	41,447	3,558	0.0
% Change		F7.0	
(1980-86)	64.3	57.9	

Source: Elaboration of data from ISTAT.

Territorial Distribution of Gross Saleable Production and Regional Specialization in Viticulture. Italy, 1986.

Table 9

Regions Lire Vilicultural GSP Coefficient of Percentage of Percentage of Percentage of Specialization (2) Plemonte (billion) Italian GSP Lirie Vilicultural GSP Coordicion of Specialization (2) Plemonte 3,804.3 7.8 272. 5.8 7.1 1.2 Lombardia 6,225.5 12.8 127.2 2.7 2.0 0.7 Combardia 6,225.5 12.8 127.2 2.7 2.0 0.7 Combardia 6,225.5 12.8 127.2 2.7 2.0 0.7 Fruil Venezia Giulia 9,657.1 10.4 521.5 11.1 10.3 4.7 Fruil Venezia Giulia 9,657.1 10.4 521.5 11.1 10.3 4.7 Liguria 8,88.8 1.8 1.511.5 32.3 6.4 7.7 North 23,785. 48.8 1.511.5 32.3 6.4 7.7 North 23,785. 48.8 1.511.5 32.3 6.4 7.7		Total	AGCD (4)				
Chillion Telechnage of Diric Percentage of Percentag	Regions	-		AND THE PERSON NAMED OF TH			Coefficient of
month 3,804.3 7.8 272. 5.8 7.1 1 le d'Aosta 60. 0.1 1.8 272. 5.8 7.1 1 mbardia 6.225.5 12.8 12.7.2 2.7 2.0 0 nitro 5,057.1 10.4 521.5 11.1 10.3 4 nitro 406.3 1.9 76.3 1.6 8.4 2.0 nuria 858.8 1.8 1.7.4 0.4 2.0 0 uria 858.8 1.8 1.511.5 8.7 6.0 0 th 2.287.6 4.7 271.5 5.8 11.9 5.8 che 1,485.4 3.0 141. 3.0 8.4 5.8 che 1,485.4 3.0 141. 3.0 9.5 3. che 1,485.4 3.0 141. 3.0 9.5 3. che 1,485.4 3.0 1.4 7.0 11.6		(billion)	Percentage of Italian GSP	Lire (billion)	Percentage of	Percentage of	-
Second						negional GSP	i
lia Romagna 6, 225, 5 12, 8 12, 8 2, 0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Piemonte	3,804.3	7.8	272	C L		
Intin Alto Adige 6,225.5 12.8 12.7 2.7 2.0 and thin Alto Adige 6,225.5 12.8 12.8 12.7 2.7 2.0 and 5,057.1 10.4 521.5 11.1 10.8 10.8 and 5,057.1 10.4 521.5 11.1 10.8 and 6,780.2 13.9 76.3 1.9 76.3 1.0 and 6,780.2 13.9 405.1 8.7 6.0 and 6,780.2 13.9 405.1 8.7 6.0 and 6,780.2 13.9 405.1 8.7 6.0 and 6,780.2 and 894.5 13.9 405.1 8.8 11.9 and 6,780.2 and 894.5 11.8 55.5 11.2 6.2 and 1,485.4 3.0 141.1 3.0 and 6,780.2 and 1,485.4 3.0 and 1,485.4 and 1,293.8 2.7 225.6 4.8 17.4 21.7 23.8 and 1,514.4 3.0 and 1,514.4	Valle d'Aosta	60.	-	jc	0.0	7.1	1.2
Infino Alto Adige 1,011.6 12.1 12/.2 2.7 2.0 109.4 2.3 10.8 10.8 11.0 4 521.5 11.1 10.3 10.8 11.0 4 521.5 11.1 10.3 10.8 11.0 4 521.5 11.1 10.3 10.0 1 10.3 11.0 10.3 11.0 10.3 11.0 10.3 11.0 10.4 2.0 11.0 10.4 2.0 11.0 10.0 11.0 11.0 11.0 11.0 11.0	Lombardia	6.225 5	- 0	× .	0.0	3.0	1
life Romagna 6,780.2 1.10 4 52.15 11.1 10.3 uria 858.8 1.9 76.3 11.6 8.4 life Romagna 6,780.2 13.9 405.1 8.7 6.0 th 23,785, 48.8 1,511.5 32.3 6.4 che 1,485.4 3.0 141. 3.0 9.5 lital 7,512.1 15.4 797.2 17.0 10.6 licata 7,46.2 1.5 5.8 17.4 3.3 76.1 12.6 licata 7,46.2 1.5 5.8 17.4 141.1 1.6 licata 1,442.8 3.0 76.2 16.4 15.9 1.1 licata 1,442.8 3.0 768.2 16.4 15.9 1.1 licata 1,442.8 3.0 768.2 16.4 15.9 1.1 licata 1,442.8 3.0 768.2 16.4 15.9 1.1 licata 1,442.8 3.0 2,370.1 50.7 13.5 licata 1,442.8 3.0 2,370.1 50.7 13.5 licata 1,442.8 3.5 2,370.1 50.7 13.5 licata 1,442.8 100.0 4,678.8 100.0 9.6	Trentino Alto Adina	1016	0.7	127.2	2.7	2.0	P C
Uria 858.8 1.9 76.3 1.1 10.0 Uria 858.8 1.9 76.3 1.6 8.4 Illa Romagna 6,780.2 13.9 405.1 8.7 6.0 Th 23,785. 48.8 1,511.5 32.3 6.4 Sana 2,287.6 4.7 271.5 5.8 11.9 Oria 894.5 1.8 55.5 1.2 6.2 Oria 898.8 2.7 225.6 4.8 17.4 See 398.8 0.8 24.3 0.5 6.1 11.6 Jana 4,270.1 8.8 1,014.4 21.7 23.8 11.6 I,614.4 3.3 76. 1.6 4.7 5.9 Ital 1,442.8 3.0 120.5 2.6 8.4 I,442.9 3.0 120.5 2.6 8.4 I,442.9 3.0 120.5 2.6 8.4 I,8 Islands 17,492.3 35.9 2,370.1 50.7 13.5	Veneto	0.10,1	-	109.4	23	0 0	
In Venezia Giulia 906.3 1.9 76.3 11.1 10.3 uria 858.8 1.8 17.4 0.4 2.0 th 23,785. 48.8 1,511.5 32.3 6.4 th 22,287.6 4.7 271.5 5.8 11.9 che 1,485.4 3.0 447 3.0 9.5 che 1,485.4 3.0 141. 3.0 11.6 zial 2,844.6 5.8 329.2 7.0 11.6 zial 7,512.1 15.4 797.2 17.0 10.6 zial 38.8 0.8 24.3 0.5 6.1 6.1 se 39.8 0.8 24.3 0.5 6.1 1.1 bria		5,057.1	10.4	501 A) T	0.0	4.7
uria 858.8 1.8 7.5.3 1.6 8.4 lila Romagna 6,780.2 13.9 405.1 8.7 6.0 th 23,785. 48.8 1,511.5 32.3 6.4 ana 2,287.6 4.7 271.5 5.8 11.9 6.2 che 1,485.4 3.0 141. 3.0 9.5 6.2 che 1,485.4 3.0 141. 3.0 9.5 6.2 che 1,485.4 3.0 141. 3.0 9.5 6.2 che 1,485.4 5.8 3.29.2 7.0 11.6 tral 7,512.1 15.4 797.2 17.0 17.4 se 38.8 0.8 24.3 0.5 6.1 17.4 se 3,630. 7.4 141.1 3.0 3.0 1.14.4 4.7 2.3 6.1 bria 1,614.4 3.3 76.2 16.4 15.9 16.4 <t< td=""><td>Friuli Venezia Giulia</td><td>906.3</td><td>σ: •-</td><td>7 1 2</td><td></td><td>10.3</td><td>6.0</td></t<>	Friuli Venezia Giulia	906.3	σ: •-	7 1 2		10.3	6.0
Ilia Romagna 6,780.2 17.9 17.4 0.4 2.0 th 23,785. 48.8 1,511.5 32.3 6.4 th 22,287.6 4.7 271.5 5.8 11.9 oria 894.5 1.8 55.5 1.2 6.2 oria 894.5 1.8 55.5 1.2 6.2 che 1,485.4 3.0 141. 3.0 9.5 che 1,485.4 3.0 141. 3.0 9.5 che 1,485.4 3.0 141. 3.0 9.5 tral 7,512.1 15.4 797.2 17.0 10.6 se 398.8 0.8 24.3 0.5 6.1 11.6 se 398.8 0.8 24.3 0.5 6.1 11.6 licata 1,614.4 3.3 76. 1.6 4.7 23.8 1 licata 1,442.8 3.0 120.5 2.6 8.4	Liguria	858.8) a	D .		8.4	ري س
th 23,785, 48.8 1,511.5 32.3 6.0 and 2,287.6 4.7 271.5 5.8 11.9 the 1485.4 3.0 141. 3.0 9.5 tral 7,512.1 15.4 797.2 17.0 10.6 se 398.8 0.8 24.3 0.5 6.1 11.8 se 398.8 0.8 24.3 0.5 6.1 11.8 licata 4,270.1 8.8 1,014.4 21.7 23.8 licata 4,842.4 9.9 768.2 16.4 15.9 agina 1,442.8 3.0 120.5 2.6 8.4 3.1 48,789.4 100.0 4,678.8 100.0 9.6	Emilia Romagna	6.780.2	. ·	4 / 1	0.4	2.0	5.0
th 23,785. 48.8 1,511.5 32.3 6.4 Tana 2,287.6 4.7 271.5 5.8 11.9 Total 1,485.4 3.0 141. 3.0 9.5 Total 7,512.1 15.4 797.2 17.0 10.6 Tala 7,512.1 15.4 797.2 17.0 10.6 Tala 4,270.1 8.8 1,014.4 21.7 23.8 Total 746.2 1.5 51.7 1.6 6.9 Total 4,842.4 9.9 768.2 16.4 15.9 11 Total 1,442.8 3.0 2,370.1 50.7 13.5 Total 17,492.3 35.9 2,370.1 50.7 13.5		1.00	9. G	405.1	•	0.9	0.7
ana 2,287.6 4.7 271.5 5.8 11.9 oria 894.5 1.8 55.5 1.2 6.2 che 1,485.4 3.0 4.7 271.5 5.8 11.9 che 1,485.4 3.0 1.2 6.2 che 2,844.6 5.8 329.2 7.0 11.6 tral 7,512.1 15.4 797.2 17.0 10.6 azzi 1,293.8 2.7 225.6 4.8 17.4 se 398.8 0.8 24.3 0.5 6.1 1 pania 4,270.1 8.8 1,014.4 21.7 23.8 bria 4,270.1 8.8 1,014.4 21.7 23.8 bria 4,842.4 9.9 768.2 16.4 15.9 agna 1,442.8 3.0 120.5 2.6 8.4 2.6 agna 17,492.3 35.9 2,370.1 50.7 13.5 <	North	23.785	18.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			· ·
Sana 2,287.6 4.7 271.5 5.8 11.9 Oria 894.5 1.8 55.5 1.2 6.2 Che 1,485.4 3.0 141. 3.0 6.2 O 2,844.6 5.8 329.2 7.0 11.6 Ital 7,512.1 15.4 797.2 17.0 10.6 Lazi 1,293.8 2.7 225.6 4.8 17.4 Se 398.8 0.8 2.4.3 0.5 6.1 1 Se 3630. 7.4 141.1 3.0 3.9 6.1 1 Isa 4,270.1 8.8 1,014.4 21.7 23.8 6.1 1 bria 1,614.4 3.3 768.2 16.4 4.7 2 spna 1,442.8 3.0 768.2 16.4 15.9 1 n& Islands 17,492.3 35.9 2,370.1 50.7 13.5 A8,789.4 100.0 4,678			40.0	1,511.5	32.3		
che 1,555 1.2 6.2 che 1,485.4 3.0 141. 3.0 9.5 2,844.6 5.8 17.0 11.6 Lizi 2,844.6 5.8 329.2 7.0 11.6 Lizi 7,512.1 15.4 797.2 17.0 10.6 Lizi 1,293.8 2.7 225.6 4.8 17.4 pania 3,630. 7.4 141.1 3.0 3.9 licata 7,62 1.5 51.7 1.1 6.9 bria 1,614.4 3.3 76. 1.6 4.7 30 8.4 76.2 16.4 15.9 1\tilde{8} \text{ 100.0} \text{ 100.0} 9.6	Toscana	2 287 G	1		-		
che 1,485.4 3.0 141. 3.0 6.2 2,844.6 5.8 329.2 7.0 11.6 Ital 7,512.1 15.4 797.2 17.0 10.6 Ital 7,512.1 15.4 797.2 17.0 10.6 se 398.8 0.8 24.3 0.5 6.1 11 lia 4,270.1 8.8 1,014.4 21.7 23.8 bria 1,614.4 3.3 76. 1.6 4.7 gan 1,442.8 3.0 120.5 2.6 8.4 1& 17,492.3 35.9 2,370.1 50.7 13.5 che 1,644.2 100.0 4,678.8 100.0 9.6	Umbria	0.707.2	4.7	271.5	5.8		
tral 7,512.1 15.4 797.2 7.0 11.6 tral 7,512.1 15.4 797.2 17.0 10.6 se 398.8 2.7 225.6 4.8 17.4 pania 3,630. 7.4 141.1 3.0 3.9 licata 746.2 1.5 51.7 1.1 6.9 bria 1,614.4 3.3 76. 1.6 4.7 sgna 1,442.8 3.0 2,370.1 50.7 13.5 1& Islands 17,492.3 35.9 2,370.1 50.0 9.6	Marcha	884.5	. 8.	55.5	10	? -	. .
tral 7,512.1 15.4 797.2 7.0 11.6 tral 7,512.1 15.4 797.2 17.0 10.6 se 398.8 0.8 24.3 0.5 6.1 lia 4,270.1 8.8 1,014.4 21.7 23.8 licata 746.2 1.5 51.7 1.1 6.9 lia 4,842.4 9.9 768.2 16.4 15.9 1& Islands 17,492.3 35.9 2,370.1 50.7 13.5 1& Islands 100.0 4,678.8 100.0 9.6	vial CIIG	1,485.4	3.0	141	- o	מיק	5.2
tral 7,512.1 15.4 797.2 17.0 11.6 12zi 1,293.8 2.7 225.6 4.8 17.4 pania 3,630. 7.4 141.1 3.0 3.9 licata 746.2 1.5 51.7 1.1 6.9 for all a 4,842.4 9.9 768.2 16.4 15.9 for a 1,442.8 3.0 120.5 2.6 8.4 3.1 8.8 17,492.3 35.9 2,370.1 50.7 13.5 for a 4,8789.4 100.0 4,678.8 100.0 9.6	Lazio	2,844.6	5.8	329.0	7 0		3.2
tral 7,512.1 15.4 797.2 17.0 10.6 12zi 1,293.8 2.7 225.6 4.8 17.4 3.9 pania 3,630. 7.4 141.1 3.0 3.9 11. licata 4,270.1 8.8 1,014.4 21.7 23.8 11. bria 1,614.4 3.3 76. 1.6 6.9 6.1 1,442.8 3.0 768.2 16.4 15.9 11. 1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6				1.010	0.7	11.6	1.7
Lizzi 1,293.8 2.7 225.6 4.8 17.4 3. 398.8 0.8 24.3 0.5 6.1 12.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Central	7,512.1	15.4	0			
se 1,293.8 2.7 225.6 4.8 17.4 3.6 se 398.8 0.8 24.3 0.5 6.1 12 pania 3,630. 7.4 141.1 3.0 3.9 1. pania 4,270.1 8.8 1,014.4 21.7 23.8 1. licata 746.2 1.5 1.5 1.1 6.9 6.9 bria 1,614.4 3.3 76. 1.6 4.7 2. sia 4,842.4 9.9 768.2 16.4 15.9 1. 1,442.8 3.0 120.5 2.6 8.4 3. 1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 1 & Islands 100.0 9.6						10.6	
se 398.8 0.8 24.3 0.5 6.1 17.4 3.6 sanda 3,630. 7.4 141.1 3.0 3.9 1.1 120.5 6.1 15.9 1.1 6.9 6.1 15.9 1.442.8 3.0 7.68.2 1.6.4 15.9 1.1 6.4 15.9 1.442.8 3.5.9 2.370.1 50.7 13.5 13.5	Abruzzi	1 202 x	1				
pania 3,630. 0.8 24.3 0.5 6.1 12 lia 4,270.1 8.8 1,014.4 21.7 23.8 1. licata 746.2 1.5 51.7 1.1 6.9 6. bria 1,614.4 3.3 76. 1.6 4.7 2. ia 4,842.4 9.9 768.2 16.4 15.9 1. ia 1,442.8 3.0 120.5 2.6 8.4 3. 1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6	Molise	0.0010	6.7	225 6	4.8	17.4	Q C
12 3.630. 7.4 141.1 3.0 3.9 1.1 12.05 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.5	Campania	0.80.0 0.00	0.8	24.3	15.0	· •	0.0.
Isa 4,270.1 8.8 1,014.4 21.7 3.9 Isa 746.2 1.5 51.7 1.1 6.9 bria 1,614.4 3.3 76. 1.6 4.7 ia 4,842.4 9.9 768.2 16.4 4.7 agna 1,442.8 3.0 120.5 2.6 8.4 1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6		3,630.		1411) (7.0	12.2
licata 746.2 1.5 1.7 23.8 bria 1,614.4 3.3 76. 1.1 6.9 ia 4,842.4 9.9 768.2 16.4 15.9 agna 1,442.8 3.0 120.5 2.6 8.4 1& Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6	rugila	4,270.1		7 7 7 7	2 7	ກ	1.3
bria 1,614.4 3.3 76. 1.1 6.9 ia 4,842.4 9.9 768.2 16.4 15.9 sgna 1,442.8 3.0 120.5 2.6 8.4 1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6	Basilicata	746.2	, -	1 1 1	7.17	23.8	T. T.
ia 4,842.4 9.9 768.2 16.4 15.9 sgna 1,442.8 3.0 120.5 2.6 8.4 1& Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6	Calabria	1 614 4) c) I C	- -	6.9	т С
egna 1,442.8 3.0 768.2 16.4 15.9 15.9 18.18 3.0 120.5 2.6 8.4 8.18 100.0 4,678.8 100.0 9.6	Sicilia	7 0 7 0	o. o	76.	1.6	7.4	000
18 Islands 17,492.3 35.9 2,370.1 50.7 13.5 13.5 4.678.8 100.0 9.6	Sardeona	† 0 † v		768.2	16.4	150	O C
1 & Islands 17,492.3 35.9 2,370.1 50.7 13.5 48,789.4 100.0 4,678.8 100.0 9.6	1	1,444.8		120.5	2.6	δ. α	- c
48,789.4 100.0 4,678.8 100.0 9.6	South & Islands	47 400 0				· · · · ·	3.7
48,789.4 100.0 4,678.8 100.0 9		17,436.3	35.9	2,370.1	50.7		
9.00.0 4,678.8 100.0	Italy	48.789.4	1000	1 010 0			
				4,6/8.8	100.0	9.6	

Source: Elaboration of data from ISTAT.

Agricultural Gross Salable Production.
 Ratio between GSP with respect to Regional GSP, and GSP with respect to the National GSP.

Grape Production and Utilization. Italy, 1980, 1986-1987. Table 10

	Caor		1986		•	T-SS-	% Change
:	Tons	Composition		Composition (%)	% Change 1 9 8 0 / 8 6	SIDI	1986/87
		12,					
Production						• .	
of which: a) Table Grapes b) Wine Grapes	1,493,530	12.7 87.3	1,779,300 9,882,200	15.3	19.1 -15.9	9,955,000	: :
Total	13,244,530	100.0	11,661,500	100.0	-12.0	:	:
Utilization							
a) Table Grapes		100.0		100.0	÷		
- Direct Consumption - Vinification	1,003,800	67.2 32.8	1,732,500 466,800	73.1	72.6	450,000	: :
h) Wine Grapes		100.0		100.0			
Direct Consumption - Vinification	121,200 11,629,800	1.0	59,180 9,823,020	0.6 99.4	-51.2	57,000	::
Total Production						6	e e
- Vinification (a+b)	12,119,400		10,289,820		 	000,938,8	ָּיָ טְּיִי
- Wine Produced (1,000	hl) 86,545		76,987		-11.0	72,800	
9	0 71		0.75		5.6	0.73	-2.6

Source: Elaboration of data from ISTAT and ISMEA.

(1) Preliminary (ISMEA)

Territorial Grape Production and Utilization. Italy, 1986.

Table 11

		Production (tons)	(S)		1 1511	
Regions	Total			◇ - 1 - 1 - 1	Utilization (tons)	
		Table Grapes	Wine Grapes	l able Grapes for Winemaking	Direct Consumption of Wine Grapes	Total Grapes
Piemonte	11	•				to the state of th
Valle d'Aosta	567,78U	2,900	564,880	920	930	561 870
Low-based	00, 00		6.100	•	0 0	0,400
Loinbardia	278,540	600	070 726		300	6,070
Trentino Alto Adige	201,870	000	0,7,0		360	277,580
Veneto	1 000 000		0/9,10>	r	1.070	260,600
Ering Manager Co.	1,200,300	200	1,235,800		7000	200,000
riidii venezia Giulia	149,310	:	149 310		0,430	1,229,370
Liguria	48,590	000	0.00	1	06	149,220
Emilia Romagna	1.086.270	2 7	40,030	1	1,540	46.850
	2		1,085,170	780	3,560	1,082,390
North	3.574 760	7 700	- 1	- 1		
		0,00	3,569,260	1,700	14,190	3.616.950
Toscana	740 000	0				
Imbria	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,300	540,580	30	5 000	
	140,570	100	140.470	1 1	7,000	534,690
Marche	338,290	700	337 590	, 7	0,040	139,430
Lazio	789.010	48 600	7 () () () () () () () () () (יאר מ	9,500	328,300
		5	7 4 0,4 - 0	2,650	6,600	736,460
Central	1 810 7EA	**************************************				
	001010	007,10	1,759,050	2,890	23.060	1 738 880
						000,007,1
1770 IOK	588,910	170,300	418,610	111 570		
Molise	78,390	2,200	76.190	0 0 0	ດກອ	529,580
Campania	392,350	6.400	285 050	0.5	30	76,370
Puglia	2,611,150	1 040 200		2,010	4,080	383.880
Basilicata	106 150		0,501,850	289,030	8.390	1 840 400
Calabria	1000	52,400	74,050	1,520		76.000
Sarabila Signi	201,/20	17,100	184.620	050	, , , , , , , , , , , , , , , , , , ,	0,000
Sicilia	1,938,280	410.900	1 507 200	1 600	08/,1	183,080
Sardegna	338.740	13 500	1,027,000		4,550	1,583,000
) - - - - -	000.	325,240	150	1,600	323,790
South & Islands	6,275,990	1.722.100	4 553 800			
			000,000,	462,210	21,930	4,998,270
Italy	11,661,500	1,779,300	000 088 0			
			3,002,200	466,800	59,180	10,354,100

Source: ISTAT and ISMEA,

Table 12 Wine Production. Italy, 1980-1987.

	Total	DC	DC
Years	(1,000 hl)	(1,000 hl)	Percentage of total wine
1980	86,545	8,547	9.9
1981	70,500	7,137	10.1
1982	72,500	8,883	12.2
1983	82,200	9,071	11.0
1984	70,900	7,205	10.2
1985	62,340	7,871	12.6
1986	76,987	8,151	10.6
1987 (1)	72,800	8,000	11.0
annual average			44.0
1980-87	74,347	8,108	11.0
% change			
1980-87	-15.9	-6.4	

Source: Elaboration of data from ISTAT, IRVAM, and ISMEA.

(1) Preliminary (ISMEA).

Territorial Distribution of Wine Production and Regional Specialization in DOC Production. Italy, 1986.

Table 13

Regions			The state of the s			
	Production	Percentage of Total Italian	Total	Percentage of Total Italian	Percentage of Total Bodional	
de de la companya esta de la companya de la company	(hectolitres)	Wine Production	(hectolitres)	DOC Production	Wine Production	opecialization (1)
	1	i I			-	
riemonie	4,005,300	5.2	1,074,000	13.2	26.8	2.0
Valle d'Aosta	39,400	0.1	2,000	0.0	5.1) 1
Lombardia	1,990,400	2.6	412,000		202	4 4
Trentino Alto Adige	1,428,500	1.9	720.000	00	10 F	- r
Veneto	9,116,700	11.8	1.780.000	8 - 2	t 4	
Friuli Venezia Giulia		1.3	436.000	تم <u>ا</u> ته ژ	40.0	1 0
Liguria	324,600	0.4	7.000	5 -	75.0	6.70
Emilia Romagna	8,168,700	10.6	684,000	8.4.	1 8 1 4.	1.0
North	26,110,500	33.9	5 115 000	8.28	9 0+	
			2001	0.70	13.0	
Toscana	3,834,800	5.0	1,134,000	13.9	29.6	- 2
Umbria	1,010,400	1.3	160,000	2.0	15.8	5 2
Marche	2,394,800	3.1	284,000	3.5	12.2	. c.
Lazio	5,335,100	6.9	588,000	7.2	11.0	1.5
Central	12,575,100	16.3	2,166,000	26.6	17.3	
Abruzzi	4.173.500	τ. Δ	000		1	
Molise	564.600	7 0	3 000	0.0	⇒ ı	D.
Campania	2,659,500	in co	200,00		o c	i (
Puglia	14,380,000	18.7	183 000	2.0	7 ° 7	ა. გ. ი
Basilicata	476,500	9.0	000 6	. c		0.0
Calabria	1,275,900	1.7	44 000	, c	. c	0.0
Sicilia	12,312,300	16.0	195.000) V	, t	0 0
Sardegna	2,459,100	3.2	127,000		5.2	. e.
South & Islands	38,301,400	49.8	870,000	10.7	2.3	
Italv	76 987 000	100 0	8 151 000	0 00 7		
		0.00	0,131,000	0.00	10.6	

Source: Elaboration of data from ISTAT, and IRVAM.

(1) Ratio between the incidence of DOC production with rspect to the total regional wine production, and with respect to the total Italian DOC production.

Table14 Number of D.O.C. Wines Recognized by Law. Italy, 1980-1985.

years	Total	Sparkling Wines
1980	619	52
1981	627	56
1982	651	57
1983	693	59
1984	718	70
1985	797	71

Source: Italian Ministry of Agriculture and Forests (National Wine Committee).

Table 15 Qualities of D.O.C. Wines Having a Production of over 100,000 Hectolitres. Italy, 1985.

Wines	Hectolitres	Percentage of Total
Chianti Mocato d'Asti Valpolicella Soave Bardolino Piave Oltrepo'Pavese Caldaro Grave del Friuli Montepulciano d'Abruz Valdadige Frascati Verdicchio Marsala Alto Adige Barbera d'Asti Orvieto Lambrusco Reggiano	894,100 636,300 423,100 351,600 260,300 246,600 243,400 229,500 219,500 183,200 175,400 175,400 154,800 147,700 145,300 109,000 106,800	11.4 8.1 5.4 4.5 3.3 3.1 2.9 2.8 2.3 2.3 2.2 2.2 2.0 1.9 1.8 1.4
Others	2,987,700	37.9
Total	7,872,900	100.0

Source: Italian Ministry of Agriculture and Forests (National Wine Committee).

Wine Supply Balance. Italy, 1983-1987. (1,000 hectolitres) Table 16

	1983-84	1001 05			
		00-+00-	1985-86	1986-87 (1)	% change
Beginning of Year Stock (2)					1983-87
	24,824	24,304	20,194	15.421	7.0
lotal Production	82,200	72 250		- 1	n·/p-
Imports		001	62,577	71,200	-13.4
	130	130	550	400	1
ıolal Available	107 151		*.))	/./0>
Competition	+0-1	96,684	83,321	87.021	100
Consumption (3)	69,350	59,490	и И		0.0
- Distilled (total)			001,00	53,000	-23.6
(max)	22,479	16,634	12,228		
Exports (4)	13 500	i			-45.6
Fno of X)))	17,000	12,800	11,000	<u>د</u> د
Life of fear Stock (2)	24,304	20.194	, (,	•	2.
Stock Variation	i	· · · · · · · · · · · · · · · · · · ·	15,421	23,021	-5.3
	-520	-4,110	-4.773		
Self-Sufficiency	1 75		· · ·	0001	-1561.5
		1.69	1.46	787	
				ļ	-23.4

Source: Elaboration from data of IRVAM, and EUROSTAT.

(1) Estimate(2) 31 August(3) Human, Processed, Distilled, Losses.(4) 1 September - 31 August

Table 17 Per Capita Wine Consumption. Italy, 1975,1980-1986.

years	Litres
1975 1980 1981 1982 1983 1984 1985	103.0 92.9 91.9 91.4 91.1 85.5 81.7
difference (1975-86)	22.0
% change (1975-86)	-21.4

Source: ISTAT, and Federvini.

Table 18 Consumption and Advertising Expenditure in the Beverage Sector. Italy, 1985.

	Consum	ption	Lire	Expenditure Proportion o
Beverages	Litres (million)	Proportion of Total	(billion)	Total
Wine Mineral Water Soft Drinks Beer Juices Alcohols	4,460 3,440 1,320 1,200 240 205 85	40.7 31.4 12.1 11.0 2.2 1.9 0.8	32 30 107 70 9 196 36	6.7 6.3 22.3 14.6 1.9 40.8 7.5
Sparkling Wines	10,950	100.0	480	100.0

Source: IRVAM.

Table 19 Per Capita Purchases of Beverages. Italy, 1986.

Royaras		beverages. Italy, 1986
Beverages	Lire	Index Number (Wine=100)
Wine Mineral Water Liquors Beer Juices Others	89,064 32,280 24,420 18,528 3,468 9,672	100 36 27 21 3

Source: Elaboration of data from ISTAT.

Table 20 Daily Wine Consumption. Italy.

	% of persons who drink wine	Daily Co	onsumption (Litres)
Sex	STANK WINE	All Adults	Wine Consumers Only
Males	76.2	0.38	0.50
Females	53.5	0.13	
Total Age	64.8	0.25	0.25 0.38
18-24	43.4	0.13	0.31
25-34	60.7	0.21	0.35
35-54	67.8	0.28	0.41
55-64	72.6	0.33	0.45
65 >	72.3	0.27	0.38
North-West	63.8	0.26	0.40
North-East	70.5	0.28	0.39
Central	71.2	0.30	0.42
Couth	58.8	0.22	0.37

Source: FEDERVINI.

Table 21 Wine Consumption by Type. Italy, 1985.

Туре	Litres (million)	Proportion of Total
Red White Rosé	1,252 586 182	62.0 29.0 9.0
Total	2,020	100.0

Source: IRVAM.

Table 22 Wine Consumption by Type of Case. Italy, 1985.

Туре	Liters (million)	Proportion of Total
Carton & Can	85	1.9
Bottle: 0.75 Litres 1.00 Litres 1.50 Litres 2.00 Litres 5.00 Litres	256 418 541 560 160	5.7 9.4 12.1 12.6 3.6
Bulk	2,440	54.7
Total	4,460	100.0

Source: IRVAM.

Table 23 Food and Beverages Trade. Italy, 1985-1986

1985 1986 1985 1986 1985 1985 1985 1985 1985 1985 1985 1985	i		Imports	"	Evocido		4	
d 21,145,300 19,822,300 8,922,400 7,986,500 -12,222,900-11,835,800 erages 642,800 634,600 1,859,000 1,450,800 1,216,200 816,200 which: 144,700 151,900 1,532,200 1,137,100 1,387,500 985,200 1,788,100 20,456,900 10,781,400 9,437,300 -11,006,700-11,019,600 Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 lt2.0 100.0 100.0 100.0		1985	1986	J	1986	Balance	86	% Change
d 21,145,300 19,822,300 8,922,400 7,986,500 -12,222,900-11,835,800 hich: 144,700 634,600 1,859,000 1,450,800 1,216,200 816,200 1 21,788,100 20,456,900 10,781,400 9,437,300 -11,006,700-11,019,600 Proportion of Total (%) 96.9 82.8 84.6 15.4 17.2 15.4 14.2 12.0 100.0 100.0 100.0 100.0 100.0 100.0			>	, ,	_ire)		}	00/006
erages 642,800 634,600 1,859,000 1,450,800 1,216,200 816,200 which: 144,700 151,900 1,532,200 1,137,100 1,387,500 985,200 1 21,788,100 20,456,900 10,781,400 9,437,300 -11,006,700-11,019,600 Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 ich: 0.7 0.7 14.2 12.0 100.0 100.0 100.0 100.0	Food	21,145,300	19,822,300	8,922,400	7,986,500	-12 222 000 11 00		
which: 144,700 151,900 1,532,200 1,137,100 1,387,500 985,200 1 21,788,100 20,456,900 10,781,400 9,437,300 -11,006,700-11,019,600 Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 lich: 0.7 0.7 14.2 12.0 100.0 100.0 100.0 100.0	Beverages	642,800		1,859,000	1.450.800	1 246 200 - 11,83	008,63	ი ი
e 144,700 151,900 1,532,200 1,137,100 1,387,500 985,200 21,788,100 20,456,900 10,781,400 9,437,300 -11,006,700-11,019,600 Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 nich: 0.7 0.7 14.2 12.0 100.0 100.0 100.0 100.0	of which:						200	-32.9
11 21,788,100 20,456,900 10,781,400 9,437,300 -11,006,700 -11,019,600 Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 nich: 0.7 0.7 14.2 12.0 100.0 100.0 100.0 100.0	Wine	144,700	151,900	1,532,200	1.137.100		į	
Proportion of Total (%) 97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 100.0 100.0 100.0 100.0 100.0	Total	21,788,100	20 456 000				200	-29.0
97.0 96.9 82.8 84.6 rages 3.0 3.1 17.2 15.4 lich: 0.7 0.7 14.2 12.0 100.0 100.0		00.	50,436,900	10,781,400		-11,006,700 -11,019	009,6	0.1
97.0 96.9 82.8 rages 3.0 3.1 17.2 lich: 0.7 0.7 14.2 100.0 100.0			Prop	ortion of Total				•
97.0 96.9 82.8 rages 3.0 3.1 17.2 lich: 0.7 0.7 14.2					(0/			
rages 3.0 3.1 17.2 lich: 0.7 0.7 14.2 100.0 100.0 100.0	B	97.0	6.96	82.8	84.6			
nich: 0.7 0.7 14.2 100.0 100.0 100.0	Severages	3.0	3.1	17.2	15.4			
0.7 0.7 14.2 100.0 100.0 100.0	of which:					• .		
100.0 100.0 100.0	Vine	0.7	0.7	14.2	12.0		7.4	
	otal	100.0		100.0	100.0			

Source: Elaboration from data of ISTAT and ICE.

	rts	(billion Lire)		710.3	1,500.0	1,700,1	1,137.1		(80.0			-25.8	
1984-1986.	Exports	(hectolitres) (billion Lire)		15,064,700	15,751,400	16,847,400	10,512,800			4.6			-37.6	
Wine (1) Trade. Italy, 1980, 1984-1986.		Imports (Fillion Ire)	(hectolitres) (billion	77.2	77.2	1437	0 14	?: 		C		il de la contraction de la constitue de la con	F 7	7.0
Wine (1) Tra		<u> </u>	(hectolitres)	194 500	176 100	0000	718,900	596,300	التجوية والمراجعة والتقديدة والمتحودة فيجاله والمجودة والمجودة والمجودة والمحاولة والمحاولة والمحاولة والمحاولة	(1.55-		•	-17-1
Table 24		years			1880	1984	1985	1986		% Change	1980-84		% Change	1 0 0 0 T

Source: Elaboration of data from ISTAT.

⁽¹⁾ Musts and Sparkling Wines included.

Table 25 Wine (1) Export Markets. Italy, 1984-1987.

	Value (bill	ion Lire)			
Countries	1984	1985	1986	Proportion of Total 1986	% Change 1984/86
eec of which:	640,648	819,512	627,938	55.2	-2.0
France	229,505	282,072	100 477		
Germany	279.561	355,110		26.5	-27.6
United Kingdor	n 83,604	101 100		43.1	-3.2
	00,004	121,136	138,984	22.1	66.2
Others of which:	642,302	712,728	509,130	44.8	-20.7
JSA	480,724				
Canada	400,724	525,742	345,384	67.8	22.5
JRSS	42,810	42,006	34,442	6.8	-28.2
	6,647	1,447	135	0.0	-19.5
otal	1,282,950	1,532,240	1,137,068	·	-98.0
				100.0	-11.4
	Quantity (hec	ctolitres)			
EC f which:	10,981,460	12,489,738	7,646,508	72.7	-30.4
ance	5,838,360	6,402,848	3,384,293		
ermany	3,983,360	4,662,954	2 000 007	44.3	-38.3
nited Kingdom	659,927	848,195	2,980,007	39.0	-25.2
	·	0 +0, 195	870,564	11.4	31.9
hers which:	4,769,152	4,357,615	2,866,264	27.3	-39.9
A	2,811,091				
nada	260 500	2,657,157	1,666,907	58.2	40 ~
SS	268,582	259,893	205,442	7.2	-40.7
	573,328	130,308	878	0.0	-23.5
al	15,750,612	16 847 250 -	10 540 -	- • •	-99.8
	<u> </u>	16,847,353	0,512,772	100.0	<u>-33</u> .3

Source: Elaboration of data from ISTAT and ICE.

⁽¹⁾ Included Mustes, and Sparklings Wines(2) Firsts seven months of 1986 and 1987

Table 25 cont.

		o/ Chango	Average	Price
1986 (2)	1987 (2)	% Change 1986/87	1987	% Change
	e 1	190000	Lire/liter	1986/87
343,900	367900	6.9	836	3.6
		áá	476	-4.5
96,700	87,100	-9.9	916	2.7
114,500	168,600	16.6	1,664	4.3
71,300	80,600	13.0	1,00.	2.35
		-6.9	1,648	
282,500	263,000	-0.5		:
		ji.		
		-13.3	1,892	-7.1 ₅
193,200	167,400		1,820	8.2
19,100	19,000	-0.5 -77.4	3,631	158.7
		- / / , 4		-1.0
626,400	630,900	0.7	1,053	-1.0
020,400				
			-	
				
		7 3.1	6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
4,262,91	5 4,398,36	01.		
•		and the control of th		
4 0 4 4 E	15 1,832,2	16 -5.6		•
1,941,5	79 1,840,6	51 13.5		
1,620,7	40 484,4	71 8.3		
447,1	40 -10 17			
1,627,5	96 1,595,7	51 -1.9		•
	233 884,8	12 -6.6		•
988,2			•	
133,7	+ 4 A 1 A A A			

1.7

5,890,511 5,994,118

Table 26 Total Italian Wine Exports into the U.S. Market. Selected years.

Year	Value million \$	Quantity (1,000 hl)	Share of Market Trend (%)
1975 1980 1982 1984 1985 1986	44.3 241.4 238.8 240.0 229.5 198.4 180.3	450 2,054 2,385 2,380 2,213 1,496 1,143	27.7 58.1 54.6 (1) 51.1 50.5 46.8
% Change:			•
1975/1987	307.0	154.0	69.0
1985/1986	-13.6	-32.4	-7.3
1986/1987	<u>-9.1</u>	23.6	

Source: Italian Wine & Food Institute; IMPACT DATABANK estimates.

(1) 1983.

Share Point Change - 10 % Change 1985/86 -13.8 -10.2 -18.2 -46.3 -58.0 -31.6 100 37 47 16 29 1986 2.5 5.3 0.9 2.9 7.3 7.9 Exported Italian Table Wine into U.S. Market and Trend of Market Share. 1980-1986. 100 40 13 100 29 60 11 1985 6.9 5.9 1.9 9 - 1 9 9 100 48 38 15 28 60 2.9 6.1 1.1 1984 7.7 6.1 2.4 16.2 8 100 Volume (million of nine-litres cases-rounded) 34 15 100 32 60 8.5 5.6 2.5 16.6 3.2 6.1 0.8 10.1 1983 5 100 58 28 14 100 29 26 2.6 6.0 6.0 9.5 10.0 4.9 2.4 17.3 1982 31 64 5 100 Share of market (% 14 60 26 1981 2.3 4.0 7.5 10.6 4.7 2.4 17.7 33 64 3 100 64 23 13 100 1980 10.2 3.6 2.1 15.9 2.3 0.2 6.9 Total Total Total Total Red White White Rosé Rosé non-Lambrusco White White Color Rosé 8 8 non-Lambrusco Lambrusco Lambrusco Table 27 Type

Source: IMPACT DATABANK estimates, 1988.

Wine Exportation by Typology and Alcohol Content. Italy, 1984-1986.

Table 28

	48			
	% Change 1985/86 -43.9 -22.8 -38.4 -34.4 -59.5 -10.6	-36.9	% Change 1985/86 -33.8 -24.2 -26.0 -19.4 -52.5 -10.5 -37.7	!
And the state of t	% Change 1984/85 14.5 -5.9 7.7 501.0 33.1 24.9	7.0	% Change 1984/85 15.9 4.3 22.5 21.8 39.6 23.9 0.2	
HATOO IN HEALTH WHITE WAS IN MANUAL PROPERTY.		100.0	(%) 0.5 15.1 84.5 64.4 4.4 0.4 15.2	
HATTER AND THE	1986 (Hectolitres) 85,900 671,300 9,755,600 7,518,400 937,300 34,500	10,512,800	1986 (Lire) 5,300 171,500 960,300 732,000 50,600 5,100 172,600	
STATE OF THE PROPERTY OF THE P	(%) 0.9 5.2 93.9 68.1 13.7 0.2	100.0	(%) 0.5 14.8 84.7 59.3 7.0 0.4 18.1	
ation's treats of the mark species of cumments according to the control of the co	1985 (Hectolitres) 153,000 870,100 15,824,300 11,464,900 2,316,300 38,600 2,004,500	16,847,400	1985 (Lire) 8,000 226,200 1,298,000 908,700 106,500 5,700 277,100	
	(%) 0.8 5.9 93.3 12.1 11.1 0.2	100.0	(%) 0.5 16.9 82.6 58.1 5.9 0.4 18.1	
Quantity	1984 (Hectolitres) 133,600 924,500 14,693,300 1,907,500 1,740,900 30,900 2,014,000	15,751,400 Value	1984 (Lire) 6,900 216,900 1,059,200 745,900 76,300 4,600 232,400	
WART SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	Typology & Alcohol Content 1) Non Concentrated Musts 2) Sparkling Wines 3) Wines < 13% 13-15% 15% > sparklings	Total	Typology & Alcohol Content 1) Non Concentrated Musts 2) Sparkling Wines 3) Wines < 13% 13-15% 15% > sparklings otal	

ource: Elaboration of data from ISTAT and ICE.

Wine Exportation by Kind of Product and Case. Italy, 1985-1987.

V	alue (million Lir	e)				% Change
nd of			1986 (1)	1987 (1)	% Change 1985/1986	1986/1987
roduct & Case	1985	1986	1900 (1)			0.7
10000		407.067	626,500	630,800	-25.8	0.7
otal Wine	1,532,241 1	,137,067	020,000			
f which:						8.6
			293,900	319,200	-14.5	-6.3
∞	645,941	552,534	330,700	309,900	-34.0	
)thers	878,271	579,242	1,900	1,700	-34.1	-10.5
/lustes	8,029	5,291	1,000			400
AlGOLOA			104,000	85,000	, 37.7	-18.0
Sparklings	277,060	172,578	104,000	•		
3parkiii 9			83,800	84,700	-24.2	1.1
Sparkling Wines	226,220	171,522	03,000	. · •		
of which:						
Of Attion.			of 700	66,500	-24.3	1.2
~~	179,998	136,237	65,700	18,200	-23.7	0.6
DOC	46,222	35,285	18,100	10,200		
Others	,		700	160,100	-34.1	-2.2
a 1:5raa (2)	431,113	283,903	163,700	229,100	-14.6	-16.1
> 2 Litres (2)	589,818	503,764	273,000	223,100		
< 2 Litres (3)						
Annual Control of the	Quantity (hect	olitres)		<u> </u>	,,	
and the second s	 _		= 000 E11	5,994,118	-37.6	1.8
Total Wine	16,847,353	10,512,772	5,890,511	0,001,111		
of which:			. = 40.079	1,622,006	-20.6	6.9
	3,484,420	2,768,091	1,516,878	4,358,394		0.2
DOC .	13,209,864	7,658,776	4,348,722	13,718	-43.9	-44.9
Others	153,069	85,905	24,911	13,710		
Mustes	100,000			688,586	-36.8	-6.9
	2,044,455	1,265,143	740,124	989,500		
Sparklings	2,0-1-1,100	·		004 065	-22.8	11.4
	870,086	671,339	324,484	361,365		
Sparkling Wines	5 670,000	- ,				
of-which:					-16.6	12.9
	E40 E40	452,308	211,991	239,341		
∞	542,518	219,031	112,493	122,024	-33.1	0.0
Others	327,568	213,001			_ 40.5	3.5
	000	5,697,404	3,234,716	3,347,64		, ,
> 2 Litres (2)	9,997,208	/ = / = /		1,582,80	2 -26.9	1.1.
< 2 Litres (3)	3,822,536	2,132,700				

Source: Elaboration of data from ISTAT, ICE, and IRVAM.

⁽¹⁾ Firsts seven months of the year.

⁽²⁾ Bulk.

⁽³⁾ Bottled.

Table 29 cont.

	Avera	ge Price	
1986 Lire/liter	% Change 1985/1986	1987 Lire/liter	% Change 1986/1987
1,082	18.9	1,053	-1.0
1,996 756 616	7.0 -13.7 17.9	1,968 711 1,302	1.5 -6.4 67.8
1,364	-1.3	1,238	-11.9
2,555	-1.7	2,344	-9.2
3,012 1,611	-9.2 14.1	2,779 1,491	-10.3 -7.5
498 1,802	15.5 16.8	478 1,890	-5.5 8.4

Bibliography

Calo', A. "La vitivinicultura italiana di fronte ai problemi della sua evoluzione". In Atti dell'Accademia Italiana della vite e del vino, Vol. XXXVII, 1985.

Commission of European Communities, <u>Commission Report</u>, COM (88) 127 final, Brussels, 1988.

Di Cocco, E. "La vite e il vino nell'economia agraria italiana". In ECONOMIA AGRARIA, n. 1, 1962.

Donadio, N. "The Italian Wine Industry and U.S. Wine Imports". M.S. Thesis, Department of Agricultural economics, Cornell University, 1987.

EUROSTAT "La vigne dans la Communite' europeenne". Louxembourg, 1985.

ICE (Italian Trade Commission) "L'esportazione vinicola italiana", 1987.

IMPACT, The "American Wine Market Review and Forecast", 1987 Edition.

M. Shanken Communications, 1987.

IRVAM (Institute for Research and Marketing information) "Irvam Informazioni: VINO", Supp. n. 39, 1987.

ISTAT (Italian Institute of Statistics) "Censimento Generale dell'Industria e del Commercio, anno 1981". 1982.

ISTAT (Italian Institute of Statistics) "Censimento Generale dell'Agricoltura, anno 1982". 1983.

ISTAT (Italian Institute of Statistics) "Annuario di Statistica Agraria". 1987.

ISTAT (Italian Institute of Statistics) "Annuario di Contabilita' Nazionale". 1987.

OIV (International Vine and Wine Office) "Bulletin de l'OIV", Various Issues, Paris, 1986.

Niederbacher, A. "Wine in the European Community" (Second edition). European Documentation series - 1/1988.

Rosa, F. "Aspetti economico-istituzionali delle frodi alimentari; il caso del vino al metanolo". In VIGNEVINI, no 1, 1987.

Rosa, G. "Le vin dans les annees 80". EC, Service Information Agricole, Brussels, 1987.

Sorbini, M. "La crisi evolutiva della viticultura italiana". In CCIAA Pesaro, 1983.

Sorbini, M. "Aspetti evolutivi del settore vitivinicolo in Emilia Romagna". In VITIVINICULTURA, no. 24, 1986.

Sorbini, M. "Condizionamenti economici nella trasformazione dell'uva". In VIGNEVINI, no 4, 1987.

United Nations, FAO Production Yearbook, Vol. 40, 1987.

United Nations, FAO Trade Yearbook. Vol. 40, 1987.

USDA "Government Assistance to Wine Production and Marketing in Italy". Trip Report, March 9, 1984.

Wine Institute, ERR, "International Grape and Wine Statistics". Special Report, April 1988.