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Measuring Wine Market Performance in the European Union

(Preliminary)

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Outlines

- ${\ensuremath{\mathnormal{\sigma}}}$ Status of the EU wine sector
- $\boldsymbol{\varnothing}$ Import structure of wines in the EU
- Solution Section Section Section 2017 Sectio

The EU Wine Sector

The role in the global term

- The EU has a traditional comparative advantage in producing and exporting wines and keeps a leading position in the global wine industry.
- In 1999, the EU provided 64.2% of world wine production and accounted for 80.5% and 59.0% of world wine exports and imports in the value term, respectively.

The EU Wine Sector

The role in the Community term

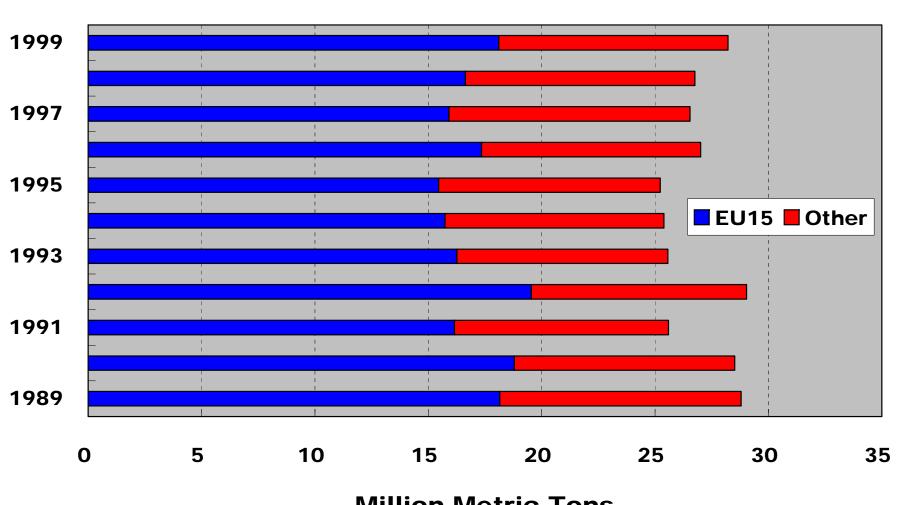
- EU winegrowing is a highly diversified sector and significantly contributes to the multifunctional nature of agriculture on the economic, rural, and environmental development for most winegrowing regions of EU Member States.
- Community market intervention has been used to protect the EU wine sector for the past decades and now is needed to be refined.

The EU Wine Sector

The role in the Community term

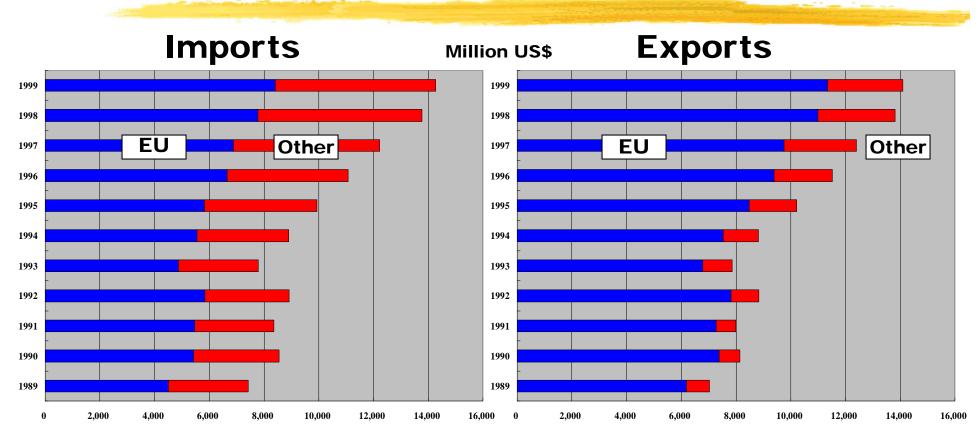
- Following the trade liberalization in accordance with the WTO agreements, the EU wine sector is opening to increasing competition from foreign wine producers.
- In addition to maintaining a better market balance of wines, the main aim of the Common Market Organization for wines is to enable the EU wine sector more competitive, in terms of production and market.

World Wine Production 1989-99



Million Metric Tons

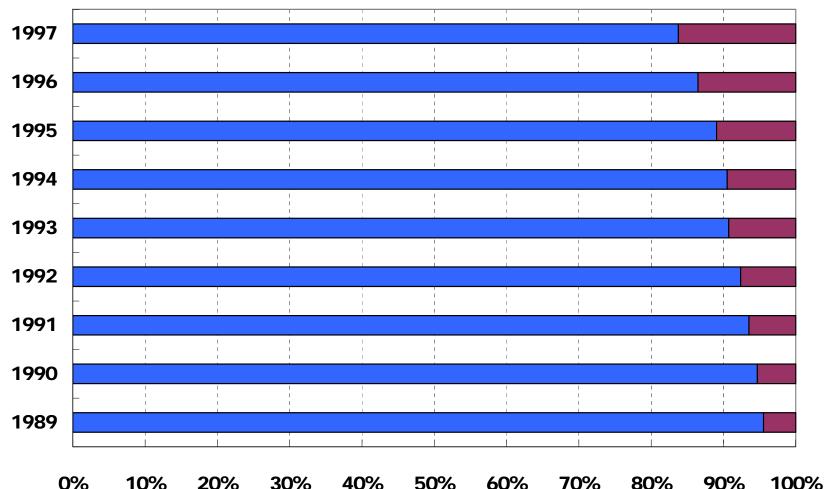
World Wine Trade 1989-99



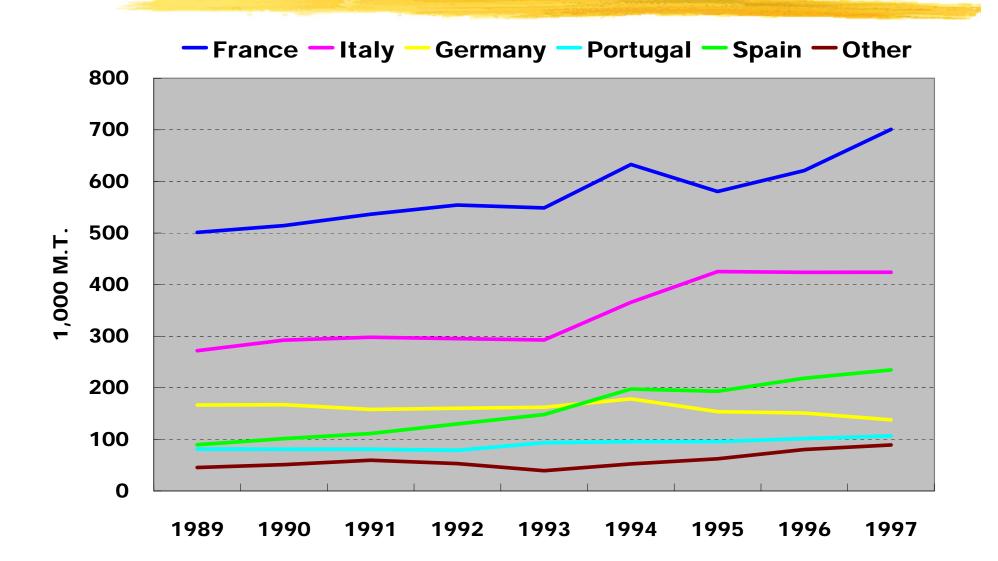
The market share of the EU wine imports had decreased from 61% to 59%. The market share of the EU wine exports had decreased from 88% to 80%.

EU Wine Imports by Origin

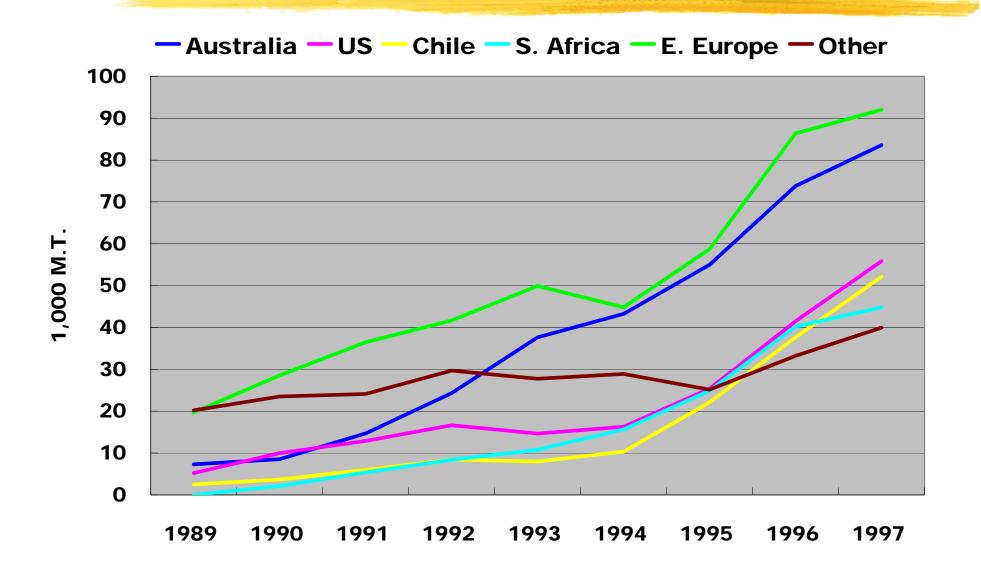
🛯 Intra-EU 🔳 Extra-EU



Intra-EU Wine Imports by Origin



Extra-EU Wine Imports by Origin



Factors to the Competitiveness of the Wine Sector

Systems	Factors	Performances
Production	 Endowments Cultivation practices Vine (grape) variety 	 Productivity Production cost
Oenological Processing	 Wine-making methods Characteristics: color, alcoholic strength acidification, sweetness Product information: labeling, brand, registers 	• Taste • Quality
Market	 Market structure Market distortions Trade barriers 	• Price • Market share

Constant-Market-Shares (CMS) Method: Traditional Approach

- Market share (S) $S_i = \frac{q_i}{Q}$, $Q = \sum_{i=1}^n q_i$ of wine i:
- Imports of wine i: $\mathbf{q}_i = \mathbf{S}_i \mathbf{Q}$
- Imports of wine i Δq_i differentiating with respect to time: Δq_i = $\Delta Q S_i^0$ (growth effect) $+ \Delta S_i Q^0$ (residual)

(interaction effect) $+ \Delta Q \Delta S_i$

Constant-Market-Shares (CMS) Method: Revised Approach

• Market share (S) of wine i on market j: $\Delta \mathbf{q}_{ij} = \sum_{i=1}^{n} \sum_{j=1}^{m} \Delta \mathbf{Q}_{ij} \mathbf{w}_{ij}^{0} \qquad (\text{growth effect}) \\ \mathbf{w}_{ii}^{0} = \mathbf{q}_{ii}^{0} / \mathbf{q}^{0}$

$$+\sum_{\mathbf{i}=1}^{\mathbf{n}}\sum_{\mathbf{j}=1}^{\mathbf{m}}\Delta\mathbf{S}_{\mathbf{ij}}\mathbf{w}_{\mathbf{ij}}^{0}$$

(competitive effect)

+ $\sum_{i=1}^{n} \sum_{j=1}^{m} \Delta Q_{ij} \Delta S_{ij} w_{ij}^{0}$ (Interaction effect)

i = wines by origin j = EU Member States

Data

- Type Wine of Fresh Grapes under the code of 220421
- Origin EU wines (France, Italy, Germany, Spain, Portugal)
 Non-EU wines (Australia, US, Chile, South Africa, East Europe-Hungary, Romania, Bulgaria)
- Source Intra- and Extra-EU Trade EUROSTAT, 1990-1997

Result 1: Growth Effect of Import Wines by Origin

EU Wines by Origin

	France	Italy	Germany	Spain	Portugal	Other
1990-94	0.10	0.06	0.03	0.02	0.02	0.01
1995-97	0.04	0.03	0.01	0.01	0.01	0.00
1990-97	0.16	0.09	0.05	0.03	0.03	0.02

Non-EU Wines by Origin

	Australia	USA	Chile	S. Africa	E. Europe	Other
1990-94	0.01	0.01	0.00	0.00	0.02	0.02
1995-97	0.02	0.01	0.01	0.01	0.03	0.01
1990-97	0.03	0.03	0.01	0.01	0.09	0.07

Result 1: Interaction Effect of Import Wines by Origin

EU Wines by Origin

	France	Italy	Germany	Spain	Portugal	Other
1990-94	-0.02	-0.01	0.13	-0.05	-0.02	-0.06
1995-97	0.00	-0.02	0.00	-0.03	-0.01	0.02
1990-97	-0.06	-0.04	0.18	-0.20	-0.07	0.04

Non-EU Wines by Origin

	Australia	USA	Chile	S. Africa	E. Europe	Other
1990-94	3.12	0.27	1.26	5.02	0.21	-0.07
1995-97	0.20	0.62	0.72	0.37	0.23	0.24
1990-97	19.55	9.53	30.17	46.41	3.85	0.23

Result 2: Effects on the EU Major Wine-growing States

	France	Italy	Germany	Spain	Portugal
Growth Effect		impo			
EU wines	0.035	0.002	0.097	0.001	0.005
Non-EU wines	0.007	0.005	0.438	0.003	0.000
Competitive effect					
EU wines	0.002	0.000	-0.016	0.000	0.000
Non-EU wines	-0.040	0.003	0.258	0.000	0.000
Interaction effect					
EU wines	0.002	0.000	-0.006	0.000	0.000
Non-EU wines	-0.003	0.005	0.744	0.000	0.000

For the 1990-1997 period

Result 2: Effects on the EU Non Wine-growing States

	UK	Ireland	Nether.	Belgium	Denmark	EU12			
Growth Effect		import demand market							
EU wines	0.091	0.005	0.014	0.027	0.038	0.315			
Non-EU wines	2.304	0.146	0.320	0.029	0.146	3.400			
Competitive effect									
EU wines	-0.081	-0.004	-0.015	-0.001	-0.003	-0.122			
Non-EU wines	1.285	0.062	0.237	0.010	0.050	1.936			
Interaction effect									
EU wines	-0.019	-0.002	-0.002	0.000	-0.003	-0.039			
Non-EU wines	5.330	0.943	1.109	0.005	0.209	6.582			

For the 1990-1997 period

Conclusion 1

- Given the constant (unchanged) market shares, import wines by any origins have insignificant growth effect causing by the change rate in the import volume.
- However, taking into account the changes in the market share and import demand structure, non-EU wines have a large degree of interaction effect for the period of 1990-1997, particularly for Australian, Chilean, and South African wines.

Conclusion 2

- EU wines have a positive growth effect (0.315), but a negative competitive effect (-0.122) in the EU resulting from decreasing market share of intra-EU wine imports.
- Non-EU wines show a strong market performance particularly on UK, Netherlands, Germany and the EU as a whole, which are associated with a high degree of decomposition of growth , competitive and interaction effects.

Further Research

- To study the competitiveness of EU wines classified by geographical indication in the global wine market.
- To develop marketing and product strategies to increase EU wine exports to Asian growing demand markets.
- To study impact effects of trade liberalization and policy reform on the EU wine industry.