Global Wine Markets, 1961 to 2009: 
A Statistical Compendium

Kym Anderson and Signe Nelgen

University of Adelaide Press
Global Wine Markets, 1961 to 2009
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Wine Economics Research Centre
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# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of charts</td>
<td>viii</td>
</tr>
<tr>
<td>List of tables</td>
<td>x</td>
</tr>
<tr>
<td>Technical notes</td>
<td>xvi</td>
</tr>
<tr>
<td>Geographical regions and their abbreviations</td>
<td>xx</td>
</tr>
<tr>
<td>Statistical sources</td>
<td>xxii</td>
</tr>
<tr>
<td>Authors’ preface</td>
<td>xxvi</td>
</tr>
<tr>
<td>Wine’s globalization: the next phase</td>
<td>xxvii</td>
</tr>
<tr>
<td>Charts: Global wine markets at a glance</td>
<td>1</td>
</tr>
</tbody>
</table>

## Tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Global wine markets, 2007-09</td>
<td>27</td>
</tr>
<tr>
<td>II.</td>
<td>Wine markets by country: annual data and growth rates, 2000 to 2009</td>
<td>35</td>
</tr>
<tr>
<td>III.</td>
<td>Wine markets by country: 5-year data and decadal growth rates, 1961 to 2009</td>
<td>125</td>
</tr>
<tr>
<td>IV.</td>
<td>Wine bilateral trade, country by region, 1990 to 2009</td>
<td>215</td>
</tr>
<tr>
<td>V.</td>
<td>Wine bilateral trade, country by country, 2009</td>
<td>301</td>
</tr>
<tr>
<td>VI.</td>
<td>Value shares of national and global wine markets, by quality categories, 2009</td>
<td>359</td>
</tr>
<tr>
<td>VII.</td>
<td>Wine and other alcohol consumption and import taxes, 2008</td>
<td>383</td>
</tr>
<tr>
<td>VIII.</td>
<td>World rankings of top 20 wine countries by various indicators</td>
<td>387</td>
</tr>
<tr>
<td>IX.</td>
<td>Summary data for each country and region: annual data, 2000 to 2009</td>
<td>399</td>
</tr>
<tr>
<td>X.</td>
<td>Pre-World War II historical data, 1675 to 1938</td>
<td>463</td>
</tr>
</tbody>
</table>

About Adelaide’s Wine Economics Research Centre
List of charts

1. Share of total agricultural crop area under vines, 2006-08 .......................... 2
2. Grape yield per hectare, 2007-09 .................................................. 2
3. Volume of national wine production, 1985-89 and 2005-09 ................. 3
5. Volume of world wine production, 1961-64 to 2005-09 .................... 4
6. Volume of world beverage wine consumption, 1961-64 to 2005-09 .... 4
7. Volume of wine production per capita, 2007-09 .................................. 5
8. Volume of wine consumption per capita, 2007-09 ............................... 5
10. National shares of world wine consumption value, 2009 .................... 6
11. Wine’s share of world recorded alcohol consumption volume, 1961-64 to 2005-09 .................................................. 7
12. Wine’s share of national recorded alcohol consumption volume, 2007-09 .......................... 7
13. Wine consumption per adult, 1961-64 and 2005-09 ......................... 8
14. Wine consumption per adult, traditional European markets, 1970 to 2009 .................................................. 8
15. Wine consumption per adult, other European markets, 1970 to 2009 ... 9
17. Rates of growth in Asian and world grape-wine consumption volume and unit value of imports, 2000 to 2009 .................................................. 10
18. Asian grape wine consumption volume, 2000 to 2009 ....................... 10
19. Wine expenditure per adult, 2009 .................................................. 11
20. Wine expenditure as % of national income, 2009 .............................. 11
21. National shares of world wine export volume and value, 2007-09 ....... 12
22. National shares of world wine import volume and value, 2007-09 .... 12
23. Volume of world wine exports, 1961-64 to 2005-09 ......................... 13
25. Exports as % of national wine production volume, 2007-09 ............... 14
26. Exports as % of wine production volume in EU-15, New World and globally, 1961-64 to 2005-09 .................................................. 14
27. EU-15 and New World shares of world wine export value, 1988 to 2009 .................................................. 15
28. Wine consumption and net exports, traditional European and New World exporters, 1970 to 2009 .................................................. 15
29. Value shares of Southern Hemisphere wines in key import markets, 1990 to 2009 .................................................. 16
30. Value of New World countries’ wine exports, 1995 to 2010 .................. 16
31. National relative to global price of wine exports, 1990-94 and 2009 .... 17
32. National relative to global price of wine imports, 1990-94 and 2009 .... 17
33. Unit value of bottled still wine exports, 1990-94 and 2009 .................. 18
34. Unit value of bulk wine exports, 2000-02 and 2009 ............................ 18
35. Unit value of bottled still wine imports, traditional markets, 1990-94 and 2009 .................................................. 19
36. Unit value of bottled still wine imports, Asian markets, 2000-02 and 2009 .................................................. 19
37. Bulk wine as % of total wine export volume, 2000 to 2010 ................. 20
38. Bulk wine as % of total wine import volume, 2000 to 2009 ............... 20
39. Index of revealed comparative advantage in wine, 2007-09 ................. 21
40. Index of revealed comparative advantage in still wine, by quality, 2009 ... 21
41. Shares of value of world wine production, by quality, 2009 ............... 22
42. Shares of value of world wine consumption, by quality, European countries, 2009

43. Shares of value of world wine consumption, by quality, non-European countries, 2009

44. Shares of value of world wine exports, by quality, 2009

45. Shares of value of world wine imports, by quality, European countries, 2009

46. Shares of value of world wine imports, by quality, non-European countries, 2009

47. Taxes (import, plus excise plus VAT) on non-premium wine consumption, 2008


## List of tables

<table>
<thead>
<tr>
<th>I. Global wine markets, 2007-09</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Summary of the world’s wine markets</td>
<td>27</td>
</tr>
<tr>
<td>2. Summary of the world’s wine exports and imports</td>
<td>28</td>
</tr>
<tr>
<td>3. Other key indicators of the world’s wine markets</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. Wine markets by country: annual data and growth rates, 2000 to 2009</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Total grapevine area harvested</td>
<td>35</td>
</tr>
<tr>
<td>5. Share of world grapevine area</td>
<td>36</td>
</tr>
<tr>
<td>6. Share of total agricultural crop area under grapevines</td>
<td>37</td>
</tr>
<tr>
<td>7. Total grape production</td>
<td>38</td>
</tr>
<tr>
<td>8. Share of world grape production</td>
<td>39</td>
</tr>
<tr>
<td>9. Grape yield per hectare</td>
<td>40</td>
</tr>
<tr>
<td>10. Volume of grapes used for wine</td>
<td>41</td>
</tr>
<tr>
<td>11. Share of national winegrape area planted to top 5 national varieties</td>
<td>42</td>
</tr>
<tr>
<td>12. National share of global winegrape area planted to top 25 global varieties</td>
<td>43</td>
</tr>
<tr>
<td>13. Volume of wine production</td>
<td>44</td>
</tr>
<tr>
<td>14. Volume of wine production per capita</td>
<td>45</td>
</tr>
<tr>
<td>15. Share of world wine production volume</td>
<td>46</td>
</tr>
<tr>
<td>16. Volume of beverage wine consumption</td>
<td>47</td>
</tr>
<tr>
<td>17. Share of world beverage wine consumption volume</td>
<td>48</td>
</tr>
<tr>
<td>18. Volume of non-beverage wine uses and stock changes</td>
<td>49</td>
</tr>
<tr>
<td>19. Volume of beverage wine consumption per capita</td>
<td>50</td>
</tr>
<tr>
<td>20. Volume of beverage wine consumption per capita (litres of alcohol)</td>
<td>51</td>
</tr>
<tr>
<td>21. Volume of beverage wine consumption per adult (litres of alcohol)</td>
<td>52</td>
</tr>
<tr>
<td>22. Volume of beer consumption per capita</td>
<td>53</td>
</tr>
<tr>
<td>23. Volume of beer consumption per capita (litres of alcohol)</td>
<td>54</td>
</tr>
<tr>
<td>24. Volume of beer consumption per adult (litres of alcohol)</td>
<td>55</td>
</tr>
<tr>
<td>25. Share of world beer consumption volume</td>
<td>56</td>
</tr>
<tr>
<td>26. Volume of spirits consumption per capita (litres of alcohol)</td>
<td>57</td>
</tr>
<tr>
<td>27. Volume of spirits consumption per adult (litres of alcohol)</td>
<td>58</td>
</tr>
<tr>
<td>28. Share of world spirits consumption volume</td>
<td>59</td>
</tr>
<tr>
<td>29. Total alcohol consumption per capita (litres of alcohol)</td>
<td>60</td>
</tr>
<tr>
<td>30. Total alcohol consumption per adult (litres of alcohol)</td>
<td>61</td>
</tr>
<tr>
<td>31. Wine’s share of total alcohol (litres of alcohol) consumption</td>
<td>62</td>
</tr>
<tr>
<td>32. Share of off-trade in total wine consumption volume and value</td>
<td>63</td>
</tr>
<tr>
<td>33. Share of national wine sales volume by four largest firms</td>
<td>64</td>
</tr>
<tr>
<td>34. Four largest wine firms in each country</td>
<td>65</td>
</tr>
<tr>
<td>35. Share of world wine sales volume by 30 largest firms</td>
<td>66</td>
</tr>
<tr>
<td>36. World’s most powerful wine brands</td>
<td>67</td>
</tr>
<tr>
<td>37. Volume of bottled still wine exports</td>
<td>68</td>
</tr>
<tr>
<td>38. Volume of bulk wine exports</td>
<td>69</td>
</tr>
<tr>
<td>39. Volume of sparkling wine exports</td>
<td>70</td>
</tr>
<tr>
<td>40. Volume of total wine exports</td>
<td>71</td>
</tr>
<tr>
<td>41. Bulk wine as % of total wine export volume</td>
<td>72</td>
</tr>
</tbody>
</table>
42. Volume of bottled still wine imports
43. Volume of bulk wine imports
44. Volume of sparkling wine imports
45. Volume of total wine imports
46. Bulk wine as % of total wine import volume
47. Volume of bottled still wine net imports
48. Volume of bulk wine net imports
49. Volume of sparkling wine net imports
50. Volume of total wine net imports
51. Exports as % of wine production volume
52. Imports as % of beverage wine consumption volume
53. Net imports as % of beverage wine consumption volume
54. Wine self-sufficiency (%) in terms of volume
55. Share of world wine export volume
56. Share of world wine export volume, excl. intra-EU15 trade
57. Share of world wine import volume
58. Share of world wine import volume, excl. intra-EU15 trade
59. Wine trade volume specialization index
60. Value of bottled still wine exports
61. Value of bulk wine exports
62. Value of sparkling wine exports
63. Value of total wine exports
64. Value of bottled still wine imports
65. Value of bulk wine imports
66. Value of sparkling wine imports
67. Value of total wine imports
68. Share of world wine export value
69. Share of world wine export value, excl. intra-EU15 trade
70. Share of world wine import value
71. Share of world wine import value, excl. intra-EU15 trade
72. Wine trade value specialization index
73. Wine’s share of value of all merchandise exports
74. Wine’s share of value of all merchandise imports
75. Index of revealed comparative advantage in wine
76. Unit value of bottled still wine exports
77. Unit value of bulk wine exports
78. Unit value of sparkling wine exports
79. Unit value of total wine exports
80. Unit value of bottled still wine imports
81. Unit value of bulk wine imports
82. Unit value of sparkling wine imports
83. Unit value of total wine imports
84. Total population
85. Adult population
86. Gross domestic product (GDP) at current prices
87. Gross national income (GNI) at international PPP exchange rates
88. Per capita GDP at current prices
89. Per capita GNI at international PPP exchange rates
90. Market exchange rates
91. PPP exchange rates
### III. Wine markets by country: 5-year data and growth rates, 1961 to 2009

| 92. | Total grapevine area | 126 |
| 93. | Share of world grapevine area | 128 |
| 94. | Share of total agricultural crop area under vines | 130 |
| 95. | Total grape production | 132 |
| 96. | Share of world grape production | 134 |
| 97. | Grape yield per hectare | 136 |
| 98. | Volume of grape production for wine | 138 |
| 99. | Volume of wine production | 140 |
| 100. | Share of world wine production volume | 142 |
| 101. | Volume of beverage wine consumption | 144 |
| 102. | Share of world beverage wine consumption volume | 146 |
| 103. | Volume of non-beverage wine uses and stock changes | 148 |
| 104. | Volume of beverage wine consumption per capita | 150 |
| 105. | Volume of beverage wine consumption per capita (litres of alcohol) | 152 |
| 106. | Volume of beverage wine consumption per adult (litres of alcohol) | 154 |
| 107. | Volume of beer consumption per capita | 156 |
| 108. | Volume of beer consumption per capita (litres of alcohol) | 158 |
| 109. | Volume of beer consumption per adult (litres of alcohol) | 160 |
| 110. | Share of world beer consumption volume | 162 |
| 111. | Volume of spirits consumption per capita (litres of alcohol) | 164 |
| 112. | Volume of spirits consumption per adult (litres of alcohol) | 166 |
| 113. | Share of world spirits consumption volume | 168 |
| 114. | Total alcohol consumption per capita (litres of alcohol) | 170 |
| 115. | Total alcohol consumption per adult (litres of alcohol) | 172 |
| 116. | Wine’s share of total alcohol (litres of alcohol) consumption | 174 |
| 117. | Volume of wine exports | 176 |
| 118. | Volume of wine imports | 178 |
| 119. | Volume of wine net imports | 180 |
| 120. | Exports as % of wine production volume | 182 |
| 121. | Imports as % of beverage wine consumption volume | 184 |
| 122. | Net imports as % of beverage wine consumption | 186 |
| 123. | Wine self-sufficiency (%) in terms of volume | 188 |
| 124. | Share of world wine export volume | 190 |
| 125. | Share of world wine import volume | 192 |
| 126. | Wine trade volume specialization index | 194 |
| 127. | Value of wine exports | 196 |
| 128. | Value of wine imports | 198 |
| 129. | Share of world wine export value | 200 |
| 130. | Share of world wine import value | 202 |
| 131. | Wine trade value specialization index | 204 |
| 132. | Unit value of wine exports | 206 |
| 133. | Unit value of wine imports | 208 |
| 134. | Total population | 210 |
| 135. | Adult population | 212 |
IV. Wine bilateral trade, country by region, 1990 to 2009

136. Volume of wine exports to each region
137. Volume of wine imports from each region
138. Value of wine exports to each region
139. Value of wine imports from each region
140. Unit value of wine exports to each region
141. Unit value of wine imports from each region
142. Share of volume of wine exports to each region
143. Share of volume of wine imports from each region
144. Share of value of wine exports to each region
145. Share of value of wine imports from each region
146. Index of volume-based regional wine trade intensity
147. Index of value-based regional wine trade intensity

V. Wine bilateral trade, country by country, 2009

148. Volume of bilateral wine trade
149. Value of bilateral wine trade
150. Unit value of bilateral wine trade
151. Share of volume of wine exports to each country and region
152. Share of value of wine exports to each country and region
153. Index of volume-based national bilateral wine trade intensity
154. Index of value-based national bilateral wine trade intensity

VI. Value shares of national and global wine markets, by quality, 2009

155. Volumes of wine production and utilization, by quality
156. Volumes of wine exports and imports, by quality
157. Pre-tax border prices of wine produced and consumed, by quality
158. Pre-tax border prices of wine exports and imports, by quality
159. Pre-tax border values of wine produced and consumed, by quality
160. Pre-tax border values of wine exports and imports, by quality
161. Retail (tax-inclusive) value of wine beverage consumption, by quality
162. Volume of wine consumption per capita, by quality
163. Volume of wine consumption per adult, by quality
164. Retail (tax-inclusive) expenditure per capita on wine, by quality
165. Retail (tax-inclusive) expenditure per adult on wine, by quality
166. Retail (tax-inclusive) expenditure on wine as % of income, by quality
167. Shares of national wine production and consumption volumes, by quality
168. Shares of national wine production and consumption pre-tax values, by quality
169. Shares of national wine export and import volumes, by quality
170. Shares of national wine export and import values, by quality
171. Value shares (pre-tax) of wine production exported and consumption imported, by quality
172. Volume- and value-based wine self-sufficiency, by quality
173. Index of revealed comparative advantage in wine, by quality
174. Shares of world wine production and consumption volumes, by quality
175. Shares of world wine production and consumption values, by quality
176. Shares of world wine export and import volumes, by quality
177. Shares of world wine export and import values, by quality
VII. Wine and other alcohol consumption and import taxes, 2008
178. Excise taxes and VAT/GST on wine, beer and spirits
179. Import taxes on wine, beer and spirits
180. Import tariff plus excise tax plus VAT/GST on wine, beer and spirits

VIII. World rankings of top 20 wine countries by various indicators
181. Total grape area
182. Share of total agricultural crop area under vines
183. Total grape production
184. Grape yield per hectare
185. Volume of wine production
186. Volume of beverage wine consumption
187. Volume of beverage wine consumption per adult
188. Volume of beer consumption per adult
189. Volume of spirits consumption per adult
190. Total alcohol consumption per adult
191. Wine’s share of total alcohol consumption volume
192. Volume of wine exports
193. Volume of wine imports
194. Exports as % of wine production volume
195. Imports as % of beverage wine consumption
196. Wine self-sufficiency (%) in terms of volume
197. Wine trade volume specialization index
198. Value of wine exports
199. Value of wine imports
200. Wine trade value specialization index
201. Unit value of wine exports
202. Unit value of wine imports

IX. Summary data for each country and region: annual data, 2000 to 2009
203. France
204. Italy
205. Portugal
206. Spain
207. Austria
208. Belgium-Luxembourg
209. Denmark
210. Finland
211. Germany
212. Greece
213. Ireland
214. Netherlands
215. Sweden
216. Switzerland
217. United Kingdom
218. Other Western Europe
219. Bulgaria
220. Croatia
221. Georgia
222. Hungary
223. Moldova  
224. Romania  
225. Russia  
226. Ukraine  
227. Other Central and Eastern Europe and Central Asia  
228. Australia  
229. New Zealand  
230. Canada  
231. United States of America  
232. Argentina  
233. Brazil  
234. Chile  
235. Mexico  
236. Uruguay  
237. Other Latin America and Caribbean  
238. South Africa  
239. North Africa  
240. Other Africa  
241. Turkey  
242. Middle East  
243. China  
244. Hong Kong  
245. India  
246. Japan  
248. Malaysia  
249. Philippines  
250. Singapore  
251. Taiwan  
252. Thailand  
253. Other Asia and Pacific Islands  
254. Western European wine net exporters  
255. Western European wine net importers  
256. Central and Eastern Europe and Central Asia  
257. Australia and New Zealand  
258. United States and Canada  
259. Latin America and Caribbean  
260. Africa and Middle East  
261. Asia and Pacific Islands  
262. European Union (15)  
263. European Union (27)  
264. New World wine exporters  
265. World

X. Pre-World War II historical data, 1675 to 1938  
266. Volume and share of global wine production, 1865 to 1938  
267. Volume and share of global wine exports and imports, 1909 to 1938  
268. Volume and share of British wine imports, 1675 to 1938  
269. Volume and share of French wine imports, 1850 to 1938
Technical notes

This section provides definitions of products, indicators and measures used throughout the compendium and an explanation of how national and global wine markets are valued by quality categories.

Definitions of products

Wine (FAO CODE 0564; SITC 112.12; Harmonised System Tariff Heading 2204)
Beverage wines of fresh grapes of all qualities, including still, sparkling, fortified and dessert wines. Beverage wines are sometimes divided into the following three sub-categories:

Bottled still wine (Harmonised System Tariff Heading 220421)
Still grape wines traded in containers of two litres or less (further sub-divided into ‘commercial premium’ or ‘CP’ and ‘super premium’ or ‘UP’ wines in Sections VI and VII);

Bulk (or other) wine (Harmonised system tariff headings 220429)
Still grape wines traded in containers exceeding two litres (also called ‘non-premium’ or ‘NP’ wine in Sections VI and VII); and

Sparkling wine (Harmonised System Tariff Heading 220410)
Grape wines, sparkling.

Non-beverage wine
Grape wines used for distillation and industrial uses.

Definitions of indicators

GDP
Gross Domestic Product, the total market value of all goods and services produced within a country in a year.

Wine self-sufficiency
Calculated as the volume of wine production divided by beverage wine consumption, times 100 so as to be expressed as a percentage.

Exports of wine
Wine exports include re-exports of foreign wine.

Net imports of wine
Wine imports minus wine exports (including any re-exports of foreign wine).

Wine trade volume (value) specialization index
Calculated in volume (value) terms as the ratio of minus the net imports of wine to the sum of wine imports plus exports, so that the index ranges between –1 and +1.
**Index of revealed comparative advantage in wine**

Calculated in value terms as the share of a country’s or region’s wine exports in its total merchandise exports divided by the share of world wine exports in total world merchandise exports. Thus the higher a country’s index is above (below) 1, the stronger its comparative advantage (disadvantage) in wine, as revealed from the trade data assuming the government has not distorted producer or consumer incentives.

**Unit value of wine exports (imports)**

Calculated as the value of a country’s wine exports (imports) by region divided by the volume of its wine exports (imports) by region, expressed in current US$ per litre.

**Index of bilateral wine trade intensity**

Calculated in volume or value terms as the share of country i’s wine exports going to country j \( \frac{x_{ij}}{x_i} \) divided by the share of country j’s imports (mj) in world wine imports (mw) net of country i’s imports (mi). That is, \( \frac{x_{ij}/x_i}{m_j/(m_w - m_i)} \). If j is a country group and country i is part of country group j, it is necessary to subtract country i’s imports from mj (in the numerator of the second expression in square brackets). Where the exporter also is a region, the following adjustments are made to allow for intra-regional trade: (a) exclude only \( \frac{1}{n} \)th of i’s imports from the denominator where n is the number of countries in the region, and (b) also multiply the numerator of the second expression in square brackets by \( \frac{n-1}{n} \) in the case where the index is for intra-regional trade.

**Annual growth rates**

Growth rates are computed using the least-squares method. The least-squares growth rate, \( r \), is calculated by fitting a linear regression trend line to the logarithmic annual values of the variable in the relevant period. The regression equation takes the form

\[
\ln X_t = a + bt + u_t
\]

which is equivalent to the logarithmic transformation of the compound growth equation,

\[
X_t = X_0(1 + r)^t.
\]

In this equation \( X \) is the variable, \( t \) is time and \( a = \ln X_0 \) and \( b = \ln(1 + r) \) are the parameters to be estimated, where \( X_0 \) is the value in the first year of a series. If \( b^* \) is the least-squares estimate of b, then the average annual growth rate, \( r \), is obtained as \([\text{antilog}(b^*) - 1]\) and multiplied by 100 for expressing as a percentage. The calculated growth rate is an average rate that is representative of the available observations over the period. It does not necessarily match the actual growth rate between any two periods within the range of the time series. If the series starts later or finishes earlier than the full period shown in a table, the growth rate for that row refers to the shorter period.

**Definitions of unit measures**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Unit (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grape vine area</td>
<td>‘000ha</td>
</tr>
<tr>
<td>Volume of grape production</td>
<td>kt</td>
</tr>
<tr>
<td>Grape yield</td>
<td>tonnes/ha</td>
</tr>
<tr>
<td>Volume of grape production for wine</td>
<td>kt</td>
</tr>
<tr>
<td>Volume of wine production</td>
<td>ML</td>
</tr>
<tr>
<td>Volume of wine consumption</td>
<td>ML</td>
</tr>
</tbody>
</table>
Wine consumed per capita or per adult L
Beer consumed per capita or per adult L
Spirits consumed per capita (alcohol content) lal
Alcohol consumed per capita or per adult lal
Domestic wine sales current local currency units and US$
Volume of wine exports and imports ML
Value of wine exports and imports current $US million
Unit value of wine exports and imports current $US/L

Explanations of unit measures

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>ha</td>
<td>hectare</td>
<td>10,000 square metres or 2.471 acres</td>
</tr>
<tr>
<td>t</td>
<td>tonne</td>
<td>1,000 kilograms or 2,205 pounds</td>
</tr>
<tr>
<td>kt</td>
<td>kilotonne</td>
<td>1,000 tonnes</td>
</tr>
<tr>
<td>L</td>
<td>litre</td>
<td>1,000 millilitres or 0.2642 US gallons</td>
</tr>
<tr>
<td>lal</td>
<td>litres of alcohol</td>
<td>Assumed 12% for wine, 4.5% for beer</td>
</tr>
<tr>
<td>ML</td>
<td>megalitre</td>
<td>1 million litres</td>
</tr>
<tr>
<td>US$</td>
<td>US dollar</td>
<td></td>
</tr>
<tr>
<td>US$m</td>
<td>million US dollars</td>
<td></td>
</tr>
<tr>
<td>US$/L</td>
<td>US dollars per litre</td>
<td></td>
</tr>
<tr>
<td>1 million</td>
<td>1,000,000</td>
<td></td>
</tr>
<tr>
<td>1 billion</td>
<td>1,000,000,000</td>
<td></td>
</tr>
</tbody>
</table>

Derivation of national and global wine market valuation by quality categories, 2009 (Section VI)

Estimates are reported, in Section VI, of the shares of national wine markets made up of non-premium (NP), commercial-premium (CP) and super-premium (UP) still grape wines and also sparkling wines, by volume and value. Estimates of national shares of global markets for each of those categories also are reported. Those estimates are derived from limited data and a number of assumptions, as follows.

Commercial-premium still wines are defined to be between US$2.50 and US$7.50 per litre pre-tax at the national border. (This is equivalent to around AUD4 and AUD12 per 750ml bottle retail in Australia including all taxes and distributor/wholesaler-to-retail mark-ups of 25% for non-premium wines and 33% for other wines.) This definition is used to get shares of the volume of domestic consumption of the three still wine categories, from Euromonitor’s volume of sales by price range data. Euromonitor also provides the volume and value (hence unit value or average price) of sparkling wine consumption, so aggregate still wine consumption is derived from total wine consumption less sparkling consumption. The raw data on price ranges for still wine refer only to off-trade, which is helpful as it does not include the additional mark-ups associated with on-trade sales in restaurants, hotels, bars and pubs. However, it requires that we assume the on-trade has the same quality distribution as the off-trade sales. Euromonitor’s prices are at the retail level though (P_r), so they first need to be reduced to a pre-tax price at the national border (P_b). This is done using the
following formula and assuming there are no production or export taxes or subsidies or import subsidies:

\[ P_b = \frac{P_r}{(1+t)(1+e)(1+m)(1+g)} \]

where \( t \) is the import tariff rate if any, \( e \) is the wine wholesale excise tax rate (in Australia, the Wine Equalization Tax of 0.29), \( m \) is the distributor/wholesaler-to-retail mark-up (assumed to be 0.25 for non-premium wines or otherwise 0.33), and \( g \) is the goods-and-services or value-added tax (in Australia, the GST of 0.1). Once the prices defining the price ranges in Euromonitor’s volume of still wine sales are so converted, we use the shares for those ranges to obtain estimates of the shares and volume-weighted average prices \( (P_b) \) of domestic consumption for the three still wine categories by fitting the share data to a statistical frequency distribution function, from which the volume-weighted average border price \( (P_b) \) for each of the three categories is estimated. That estimated average price is then multiplied by the estimated volume to generate the value of domestic consumption for each of the three still wine categories. We are grateful to Jagath Dissanayake for statistical research assistance in generating these consumption estimates.

United Nations COMTRADE data provide export and import volumes and values (hence unit values) for sparkling wine, for still wine in bottles of less than 2 litres, and for other still wine. The latter is assumed to be equal to non-premium still wine. To split data for trade in premium still wine (bottles of less than 2 litres) into its two categories, we assume \( \lambda_x \) and \( \lambda_m \) are the shares of bottled still (<2l) export and import volumes that are commercial-premium (hence 1-\( \lambda \) is the super-premium share), and guess the \( \lambda \) value for each country from trade unit value data, consumption shares by price range, and the shares of production exported and consumption imported. We then calculate the prices of commercial-premium and super-premium exports and imports such that the weighted average of the two premium wine types’ export or import prices equals the unit value of the country’s exports or imports of all bottled still wine (<2l).

Having estimated the trade and consumption volumes and values and the domestic prices of the four grape wine categories, we then assume for sparkling wine that its volume of production = consumption + imports – exports and subtract that from total wine production to get the volume of still wine production. Typically still wine production in any year will differ from beverage consumption that year because some output may be used for industrial or other purposes, and because there may be changes in stocks (positive or negative). The proportional difference between still wine production and beverage consumption of still wine is assumed to be the same for all three still wine categories. That proportion is used to inflate/deflate ‘consumption + imports – exports’ for each of the three still wine types to obtain estimates for their volume of production. These volumes are then multiplied by their respective estimated pre-tax domestic prices at the national border to obtain estimates for their value of production.
Geographical regions and their abbreviations

The compendium separately identifies the 44 most important individual countries in global wine markets plus 7 regional groupings of other countries. It also provides sub-totals for 8 regions (summing to the world) which have the following acronyms:

**Wine regions of the world**

- **WEX** Western European wine net exporters
- **WEM** Western European wine net importers
- **ECA** Central and Eastern Europe and Central Asia
- **ANZ** Australia and New Zealand
- **USC** United States and Canada
- **LAC** Latin America and Caribbean
- **AME** Africa and Middle East
- **APA** Asia and Pacific Islands

**Individually reported countries in each wine region**

- **WEX**: France, Italy, Portugal, Spain
- **WEM**: Austria, Belgium-Luxembourg, Denmark, Finland, Germany, Greece, Ireland, Netherlands, Sweden, Switzerland, United Kingdom
- **ECA**: Bulgaria, Croatia, Georgia, Hungary, Moldova, Romania, Russia, Ukraine
- **ANZ**: Australia, New Zealand
- **USC**: Canada, United States
- **LAC**: Argentina, Brazil, Chile, Mexico, Uruguay
- **AME**: South Africa, Turkey
- **APA**: China, Hong Kong, India, Japan, (Republic of) Korea, Malaysia, Philippines, Singapore, Taiwan, Thailand

**Residual country groups**

**Other Western European wine net importers (OWEM)**
Andorra, Channel Islands, Cyprus, Faeroe Islands, Gibraltar, Greenland, Holy See, Iceland, Isle of Man, Liechtenstein, Malta, Monaco, Norway

**Other Central and Eastern Europe and Central Asia (OECA)**
Albania, Armenia, Azerbaijan, Belarus, Bosnia Herzegovina, Czech Republic, Estonia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Macedonia, Mongolia, Poland, Russia, Serbia, Montenegro, Slovakia, Slovenia, Tajikistan, Turkmenistan, Uzbekistan

**Other Latin America and Caribbean (OLAC)**
Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, British Virgin Islands, Cayman Islands, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands, French Guiana, Grenada, Guadeloupe, Guam, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Montserrat, Netherlands
Antilles, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Saint Kitts and Nevis Islands, Saint Lucia, Saint Pierre & Miquelon, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Turks and Caicos Islands, U.S. Virgin Islands, Venezuela

**North Africa (NAFR)**
Algeria, Egypt, Libyan Arab Jamahiriya, Morocco, Tunisia

**Other Africa (OAFR)**
Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo (Democratic Republic of), Congo-Brazzaville, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Reunion, Rwanda, Saint Helena, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, Swaziland, Tanzania, Togo, Uganda, Western Sahara, Zambia, Zimbabwe

**Middle East (MEST)**
Afghanistan, Bahrain, Gaza, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Occupied Territories, Oman, Palestine, Qatar, Saudi Arabia, Syrian Arab Republic, United Arab Emirates, Yemen

**Other Asia and Pacific Islands (OAPA)**

**Memo items: other country groups**

**European Union members as of March 2004 (EU15)**
Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom

**European Union members as of January 2007 (EU27)**
Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom

**New World wine exporters (NWE8)**
Argentina, Australia, Canada, Chile, New Zealand, South Africa, United States, Uruguay
Statistical sources

As with the earlier compendia, the key data drawn upon are the United Nations’ agricultural and trade sources, namely FAOSTAT and COMTRADE, supplemented by the World Bank for GDP data and Euromonitor International for domestic alcohol beverage consumption and sales data, plus EUROSTAT and various national statistical agencies and wine industry organizations to check individual country data and to obtain winegrape plantings by grape variety. Where possible the latest available revised time series are used to replace former series. There have been some changes of data from previous editions due to changes in data availability and organizational developments affecting data providers. For example, the OIV is now deferring to the FAO on vineyard and wine statistics. Following the listing of key sources, notes are provided below for the various sections of tables.

Key data sources

UN FAO (http://faostat.fao.org)
World Bank (http://econ.worldbank.org)
Euromonitor International, country beverage sector briefings (www.euromonitor.com)
EUROSTAT (http://ec.europa.eu/eurostat)
Wine Institute, California (www.wineinstitute.org/resources/statistics)
South African Wine Industry Information and Systems (www.sawis.co.za)
Wines of Argentina (www.winesofargentina.org/en)
Wines of Chile (www.winesofchile.org)

Parts I to III:

Data on grape vine area, yield/ha and production are derived from FAOSTAT at: http://faostat.fao.org/site/567/DesktopDefault.aspx?PageID=567#ancor

To get the share of cropping land under vines, grapevine area is divided by the total area of agricultural land (arable land and land used for permanent crops), as derived from FAO’s ResourceSTAT database: http://faostat.fao.org/site/377/DesktopDefault.aspx?PageID=377

The FAO only publishes total grape production, which includes grapes used for wine-making and grapes used for other purposes. For those countries and regions for which national data were not readily available, grapes used for wine data are estimated from the volume of wine production assuming one tonne of wine grapes yields 750 litres of wine. These should be thought of as grape equivalent data in the case of countries such as China that import juice and wine for blending with locally grown product.
Estimates of **winegrape area by grape variety** are from Anderson, K. “Varietal Intensities and Similarities of the World’s Wine Regions”, *Journal of Wine Economics* 5(2): 270-309, Winter 2010 (pre-circulated as Working Paper 0410, Wine Economics Research Centre, University of Adelaide, March 2010). They draw on national sources for the 12 largest winegrape-producing countries which account for all but one-eighth of world winegrape production. Thanks are due to Lachlan Deer and Claire Hollweg for research assistance in generating these shares.

FAO data have been used to update grape **wine production** data with the exception of the United States (which are taken from www.wineinstitute.org/resources/statistics/article83) and Asian countries. FAO estimates for China appear to be high, reflecting perhaps also rice wine production, so we have used consumption minus net imports of grape wine. For 2008 our estimate of 812ML is close to the production estimate in Euromonitor International’s Country Sector Briefing for China, which mentions 689ML but states that, according to the China Alcoholic Drinks Industry Association (www.winechina.com), this is an underestimate because it excludes the output of hundreds of small producers. Production is very minor in other Asian countries and is assumed to be consumption minus net imports there also.

Previous editions of the Compendium have drawn heavily on **wine, beer and spirits consumption** data from *World Drink Trends*, which was formerly compiled and produced by the UK-based World Advertising Research Centre. That publication has been discontinued. The data source for data from 2004 onwards is Euromonitor International Country Sector Briefings (www.portal.euromonitor.com/Portal/Magazines/IndustriesHeavy.aspx). Login details are required in order to access the data online. The change of data source has resulted in a reduction in per capita consumption figures for some countries from 2004, notably France and some Eastern European countries. As extreme examples, the Georgian figures fell by two-thirds from 2003 to 2004 due to the change to Euromonitor data (which are considered to be more reliable than the previous estimates). Data are not available for Moldova from Euromonitor, so we assume it has the same per capita consumption for wine, beer and spirits as Georgia from 2007. For the residual regions OWEM, OECA, OLAC, NAFR, OAFR, MEST and OAPA, estimates are obtained based either on the per capita consumption and population data available from the Wine Institute of California (www.wineinstitute.org/resources/statistics), or on wine production plus net imports. The wine and beer consumption data are converted to litres of alcohol (lal) assuming their alcohol contents are 12 and 4.5 percent by volume, respectively. Non-grape wines are ignored, as they are a small fraction of total alcohol consumption (even though they are a non-trivial share of wine consumption in a small number of countries, as noted at the top of the next page). All consumption data, like production data, are ‘recorded’, that is, no account is taken of informally produced or homemade (legal or illegal) alcoholic beverage production or consumption. The World Health Organization estimates that 29 percent of world alcohol consumption was unrecorded in 2005, and that estimate is 48 percent in low-income countries and 69 percent in South and Southeast Asia, compared with 11 percent in high-income countries (see WHO, *Global Status Report on Alcohol and Health*, Geneva: World Health Organization, 2011, www.who.int).

Data on **non-beverage wine uses and stock changes** were previously taken from the OIV’s annual “Situation Report for the World Vitivinicultural sector”. However, as they are no longer available from there, an estimate for them is provided from 2000 simply as wine production minus beverage wine consumption plus net imports.
Data from Euromonitor International are used to compile the **shares of off-trade in total wine consumption**. Off-trade refers to wine purchased and consumed off the premises and therefore includes sales from retail outlets including grocery and liquor outlets but not from restaurants, hotels, bars and pubs. Unlike in other tables, the off-trade figures include non-grape wine. Non-grape wine accounts for more than a 5 percent share of wine sales in seven of the featured countries. In 2009 it was higher than 50 percent in China, Japan, South Korea and Taiwan (made up predominantly from rice wine, sake and takju), was one-fifth in Azerbaijan, and was about one-eighth of wine sales in Austria (mostly fruit wines) and Hong Kong.

The **shares of the largest firms in total wine sales** are based on volumes of ‘still light grape wine’ as defined by Euromonitor International.


The World Bank’s World Development Indicators website also provides gross national income (**GNI**) data converted to current international dollars using purchasing power parity (**PPP**) exchange rates as part of its International Comparisons Program. An international dollar has the same purchasing power as a U.S. dollar has in the United States. **GNI** is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad.

**Parts IV and V:**

The UN Commodity Trade Statistics database (COMTRADE) was used to obtain bilateral **value and volume of trade** data for all countries (whose ratio provides the unit value, or average price). COMTRADE distinguishes sparkling wine, still wine in bottles of less than 2 litres (split into commercial- and super-premium as detailed at the end of the Technical Notes section above), and other still wine (assumed to be equal to non-premium still wine). COMTRADE also is the source for the sum of all merchandise trade ([http://comtrade.un.org](http://comtrade.un.org)). Taiwan’s trade data are from [http://cus93.trade.gov.tw/ENGLISH/FSCE](http://cus93.trade.gov.tw/ENGLISH/FSCE) and [http://wits.worldbank.org/wits/](http://wits.worldbank.org/wits/).

The bilateral trade matrices are based on export data, but they would be very similar if they have been based on import data.
Parts VI and VII:

The shares of national and global wine markets by quality are derived for 2009 as explained at the end of the Technical Notes section above, using data from Euromonitor International plus several assumptions. The methodology used has allowed the comprehensive estimation of the value of wine production and consumption at pre-tax prices and also of expenditure in total, per capita and per adult at tax-inclusive retail prices, and as a percentage of current (2009) national income. It does so in such a way as to also provide the national and regional shares of global markets for non-premium, commercial-premium, super-premium and sparkling wines separately and in combination. The raw data on price ranges for still wine refer only to off-trade, which is helpful as it does not include the additional mark-ups associated with on-trade sales in bars and restaurants. However, it requires that we assume the on-trade has the same quality distribution as the off-trade sales.

Wine and other alcohol taxes are very complex and thus difficult to summarize, because the excise and import taxes (but not VAT/GST) are typically per unit of beverage or of alcohol, and hence vary with the price and alcohol content of each beverage. They have been converted to an average ad valorem equivalent (AVE) rate as of 2008 using various assumptions in a paper by Kym Anderson, “Excise and Import Taxes on Wine vs Beer and Spirits: An International Comparison”, *Economic Papers* 29(2): 215-28, June 2010 (pre-circulated as Working Paper 0510, Wine Economics Research Centre, University of Adelaide, March 2010). Thanks are due to Jayanthi Thennakoon for research assistance in generating these AVEs.

Part X:


In cases where information is not available, or where a number is not applicable for a particular country, na is inserted. Lack of information is mainly a problem for small and poor countries, especially ones that are not wine-focused. Their omission thus has almost no impact on the regional and especially global aggregates reported in those tables.
Authors’ preface

This latest edition of our Statistical Compendium is the ninth version to be prepared since 1998. It has been compiled by the new Wine Economics Research Centre of the University of Adelaide. It updates data to 2009 but also revises past data, and it expands on earlier editions in a number of ways. For example, we now separately identify the new 27-member European Union as a group (as well as the former EU15) plus eight Asian emerging economies (Hong Kong, India, Korea, Malaysia, Philippines, Singapore, Taiwan and Thailand) in addition to China and Japan. We also include more than 50 new tables to cover such items as the volume and value of wine markets by price category; excise and import taxes; per capita and per adult expenditure on wine; the off-trade share of domestic sales; the shares of the largest firms in national markets and globally; the most powerful wine brands globally; the shares of different winegrape varieties in national and global production; and some pre-1940 wine production and trade data. This edition is thus a major improvement over previous editions, which were compiled by the Centre for International Economic Studies (CIES) at the University of Adelaide, and by the Centre of Policy Studies (CoPS) at Monash University, as follows:


We acknowledge and thank the Grape and Wine Research and Development Corporation and the University of Adelaide’s Wine2030 Network for assisting with funding the project to produce this Compendium. We are also grateful to Nicola Chandler and Ernesto Valenzuela who helped with the initial updating of consumption and trade data, respectively, for this edition, to Jagath Dissanayake and Jayanthi Thennakoon for research assistance with Parts VI and VII, respectively, to Lachlan Deer and Claire Hollweg for research assistance with winegrape varietal data compilation, and to former co-authors of previous editions for the earlier time series.

While the authors have made every effort to ensure the accuracy and currency of information within this compendium, we accept no responsibility for information which may later prove to be misrepresented or inaccurate, or for any reliance placed on the information by readers.
Wine’s globalization: the next phase

A decade ago, a conference was held in Adelaide to examine the rapid globalization of the world’s wine markets over the previous decade. One clear indicator of that phenomenon was the growth in the volume of exports as a percentage of world wine production, which rose from 15 to 25 percent between 1988-90 and 2001. For the big four European wine exporters that ratio rose from 20 to 30 percent, which was impressive by historical standards; but for the New World exporters (North and South America, South Africa, Australia and New Zealand), the ratio rose from just 3 percent in the late 1980s to 20 percent by 2001.

It was obvious at the time of the 2001 conference that the dramatic entry onto the international stage by New World producers presented a serious challenge to producers in Europe. It was also argued then that the rapid expansion in New World vineyard plantings in the latter 1990s/early 2000s would cause New World regions also to face challenges once grapes from those new plantings were added to the stocks of wine available for sale – especially if there was not a reversal in the previous two decades’ decline in global wine consumption (see Chart 6).

With a second decade of rapid globalization of the industry now behind us, it is again an appropriate time for an evidence-based assessment of recent developments as participants move forward. The volume of exports as a percentage of world wine production has continued to rise, from 25 to 32 percent between 2001 and 2009. For the big four European wine exporters it rose by one-fifth (from 30 to 35 percent), while for the New World exporters it doubled (rising from 20 to 40 percent between 2001 and 2007), before falling back to 37 percent in 2009 (Table 51 of this compendium). For Australia and Chile those shares are now more than two-thirds (Chart 25). Thus in both Old and New World wine-exporting countries, production is growing faster or falling less than consumption (Chart 28).

Looking from the importing countries’ side, between 2000 and 2009 the share of wine consumption supplied by imports has risen, from 28 to 37 percent globally and from 23 to 34 percent for the European Union (Table 52). This is partly because, within Europe, the countries where wine consumption is declining (rising) fastest are the countries that are net exporters (importers) of wine (Charts 14 and 15).

Australia led the export charge for ten or so years from the mid-1990s, but in more-recent years it has been New Zealand and Argentina that have enjoyed the fastest export growth (Table 63 and Chart 29). That, together with continued high growth for Chile and South Africa, has ensured the New World continues to take global market share from the Old World (Tables 56 and 69). Indeed, when intra-EU trade is excluded, the New World has almost caught up with the EU-15 in export value terms, and has surpassed the EU-15 in volume terms (Charts 27 and 24).

But this second decade of rapid globalization of the wine industry has several characteristics that distinguish it from the 1990s. One is that export volume growth more than

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1 Summaries, including projections to 2005, were subsequently published in Anderson, Norman and Wittwer (2003), and more detailed analyses of developments in each of the world’s main wine regions up to that time, by authors from those regions, are available in Anderson (2004).
halved for the Old World, dropping from 3.8 percent in the 1990s to 1.8 percent in the most recent decade, whereas for the New World it dropped by only two-fifths, from 18 to 11 percent (Table 117). However, the unit value of wine exports in the past decade hardly changed for the New World, whereas it grew by 7 percent per year for the four big European exporters, which meant the value of the latter’s exports grew almost as fast as for the new World (Tables 127 and 132).

Second, exports peaked for Australia in 2007, and growth has slowed in New Zealand too as marketers in both countries struggle to dispose of burgeoning stocks in the wake of the North Atlantic recession and their appreciating currencies (Table 90). Local prices of grapes and especially of vineyard and winery assets have plummeted even more than unit values of their exports, which fell between 2007 and 2009 alone by one-quarter in nominal US dollar terms (Table 79). Australia’s appreciating currency (thanks to its boom in mining exports to China) also encouraged import growth. That meant its wine self-sufficiency fell from its peak of 337 percent in 2004 to 236 percent by 2009, its revealed wine comparative advantage index almost halved, and its wine trade specialization index fell from 0.9 to 0.66 (Table 228). By contrast, New Zealand’s boom, which began several years later than Australia’s showed no sign of slowing by 2009: its wine self-sufficiency rose from around 80 percent early in the century to 240 percent by 2009, and its revealed wine comparative advantage index more than trebled as did its wine trade specialization index in value terms – both of which now exceed Australia’s (Table 229).

Third, the sleeping giant of the Southern Hemisphere was abruptly awakened when Argentina abandoned its peg to the US dollar and devalued by two-thirds at the end of 2001. The share of Argentina’s production that is exported rose from 4 to 29 percent by 2008 (Table 51). Initially the quality of those exports was low, but it has been rising rapidly: the unit value of exports almost trebled between 2003 and 2010, from US$0.88 to $2.67 per litre, and the share of bulk in total wine exports halved, falling from 52 to 26 percent (Tables 79 and 41). By contrast, the shares of Australian, New Zealand and United States wine exports shipped in bulk has roughly quadrupled between 1999 and 2010 (Table 41). New World exporters as a whole now ship a slightly larger share in bulk than does the EU-15, in contrast to the turn of the century when the New World share was half the Old World’s (Chart 37). That partly reflects decisions by large firms to bottle cheaper wines at their destination rather than in a distant country of origin, but it is also a symptom of a rising over-supply situation in Australia and New Zealand.

Fourth, this past decade has seen the wine market grow rapidly in the region where it had its smallest presence, namely Asia. While wine’s share of recorded alcohol consumption has not changed much from 18 percent globally, its share in Asia has doubled over the past decade, albeit to just 3 percent. The growth has been concentrated mostly in China, where it trebled to 3.7 percent (Table 31). That resulted in China’s aggregate consumption almost quadrupling over the decade, so that it now dwarfs consumption in the rest of Asia including Japan (Chart 18) and by 2009 almost equalled United Kingdom consumption (Table 186). On a per adult basis, wine consumption volume growth has been equally impressive in the much less populous but more affluent economies of Hong Kong, Korea, Malaysia and Singapore, while lacklustre in Japan (Charts 16 and 17).

Fifth, even more striking is the rapid emergence of Asian countries as importers of super-premium wines. By 2009, seven of the 15 top-ranked countries in terms of unit value of wine imports were Asian (Table 202). The growth in their average price of imports has varied though, being highest for China and Hong Kong but also for Japan (Chart 17). Particularly
notable is the rapid decline in the share of Asia’s wine imports that are bulk (Chart 38). As a result, Asian imports are now very much higher priced than those of traditional importers (compare Charts 35 and 36).

Sixth, China (and to a far smaller extent India)\(^2\) is not only expanding wine consumption but is also planting more vines and expanding domestic wine production (in part with the help of imported juice and bulk wine). Certainly China’s wine self-sufficiency has fallen, but only marginally, from around 93 percent a decade ago to 85 percent by 2009 (Table 54). Whether the one percentage point difference over the past decade in the annual rates of growth of China’s wine consumption and production will increase is a moot point, but many exporting countries are focusing their marketing efforts increasingly on China in the apparent hope that it will. One sign that has encouraged them is the growth in the quality of China’s wine imports: their unit value doubled in the second half of the past decade (Table 83). Another encouraging sign is the rapid rise in China’s share of global income (Table 87), which is expected by many international agencies to more than double over the next two decades. As of 2009, France held the dominant position as a wine exporter to both China and India, followed by Australia (Tables 148 and 149).

Seventh, China is not the only former planned economy to see a surge in interest in wine. Over the past decade the share of wine in Ukraine’s recorded alcohol consumption has, like Asia’s, doubled and Russia’s has gone up by one-half such that in both countries wine accounted for one-tenth of their recorded alcohol consumption in 2009 (Table 31). Domestic wine production also has grown there, but even so net imports accounted for 33 percent of Russian consumption in 2009 compared with only 15 percent in 2000 (Table 53). Meanwhile, production in the rest of Eastern Europe and the former Soviet Union has declined, so Russia is buying more from other regions (Table 143 and Chart 30). The unit value of its imports is rising only one-third as rapidly as that for China though (Table 83). As a result, China’s share of the value of world wine imports has risen from one-tenth to almost four-fifths of Russia’s since 2001 (Table 70).

Eighth, there remains a wide spectrum of expenditure per adult on wine – and even more so on different quality categories of wine (Chart 19 and Table 165). There is only slightly less discrepancy when those average expenditures for different countries are expressed as a share of national income (Chart 20 and Table 166).

Ninth, alcohol consumption patterns of traditional wine-exporting countries and those of neighbouring countries within Europe are converging (Charts 14 and 15). The former was only 46 percent above the latter in 2009, compared with 220 percent above in 2000 (Table 21). The growth in wine demand in non-traditional wine-consuming countries of Europe and Asia has contributed to a halting of the rapid decline in wine’s share of recorded alcohol consumption globally, which halved between the 1960s and 1990s (Chart 11). The contrasting changes in that share for individual countries are clear from Chart 13.

Just as the differences within Europe are diminishing, so too are the differences between the Old World and the New World. The specialization of the New World in exporting commercial-premium wines and of the Old World in exporting super-premium

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\(^2\) India’s wine production and consumption grew at a faster rate than China’s during the past decade, but its wine market is still barely 1 percent of China’s (Tables 13 and 16). India’s imports have been growing at more than 25 percent a year over the past decade, but from a low volume and remain hampered by a 150 percent import duty.
wines (and consuming mainly non-premium wines) is less obvious now (Tables 156 and 160). One aspect that is still very different, though, is the extent of firm concentration within each country group. Wine is the least concentrated of the beverage and tobacco industries. According to Rabobank, the world market share of the three largest firms in the late 1990s was just 6 percent in the wine industry compared with 35 percent for beer, 42 percent for spirits, and 78 percent for soft drinks (Chart 26 in Anderson and Norman 2003). Certainly mergers and acquisitions within the global wine industry are happening continually, and between 2003 and 2009 the shares of global sales held by the four, and 30, largest firms both rose by almost one-third. Even so, in 2009 the three largest wine firms held only 7 percent of global sales, and the next five need to be added before the share rises to one-eighth (Table 35). That firm concentration is predominantly in the New World, where the majority of sales are by the four biggest firms. By contrast, in the Old World barely one-eighth of sales are from the four largest firms (Table 33). Even in this respect, though, there are signs of change: more large firms are emerging in Europe, and the large publicly listed firms that dominate the New World (see Table 34) are coming under shareholder pressure to be sold as profitability falls following rapid expansions there. On the one hand, it is conceivable that buyers for some of those wineries will be long-established family companies. On the other hand, the buyers might be large Asian firms seeking security of supply for their domestic market and/or rapid acquisition of technological and marketing knowledge.

As of 2009, global wine sales, totalling the equivalent of 30 billion 750ml bottles, had a wholesale pre-tax production value of US$98 billion. That represents an average price of $3.27 per bottle wholesale pre-tax, or US$5.50 retail including taxes (Table 161).

As defined here, commercial-premium still wines account for two-fifths of global sales in both value and volume terms. Super-premium still wines are estimated to account for one-third of the global still wine market’s value but only one-tenth of its volume, whereas non-premium wines account for just one-seventh of global wine in value terms but almost half in volume terms. Sparkling wines make up the rest, accounting for 13 percent by value and half that share by volume (Tables 167 and 168).

France is still the clear leader in super-premium still wine, supplying two-fifths of the value of the world’s exports, which is more than three times the share of second-ranked Italy at 17 percent (Table 177). Perhaps more surprising is that New Zealand is ranked third in this category, with 9 percent, ahead of Portugal (6 percent) and Australia and Spain (each 3 percent). South Africa and Argentina trail behind Chile, Germany and the United States.

It is Italy that has the number one rank in terms of value of exports of commercial-premium wines, ahead of France, while Spain is first ranked in non-premium wine exports,

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3 This difference in firm concentration between the Old World and the New World was evident as early as the 19th century, for a complex set of environmental, technological and institutional reasons (Simpson 2011).
4 Fosters, Australia’s largest beverage company, spun off its wine business in May 2011 under a new name, Treasury Wine Estates. Fosters had made a series of acquisitions during the first half of the past decade, including paying US$1.1 billion for Beringer, a Californian label, in 2000 and culminating in the purchase of Southcorp (owner of Penfolds, Lindemans and Rosemount) in 2005 for A$3.2 billion. Having cost around A$7 billion to put together, a private-equity firm reportedly offered to pay between A$2.3 and 2.7 billion for it in September 2010. Its valuation on 10 May 2011, the first day of listing as Treasury Wine Estates, was just A$2.15 billion. In December 2010, Champ, a Sydney-based private-equity firm, took an 80% stake in the Australian and British wine business of New York-based Constellation Brands (which Constellation had paid around A$1.9 billion for in 2003), in a transaction valued at just A$290 million.
well ahead of Italy and then France. Together these three account for half the commercial-
premium and non-premium global still wine export value, and over 70 percent of super-
premium still wine. The next-ranked commercial premium exporters are Australia, Chile, the
United States, Argentina and South Africa, and the same ordering (apart from Argentina)
applies to non-premium exports (Chart 44).

Those export shares are not closely related to value of world production shares, because
of the large differences across countries in the extent to which national production is exported
and consumption is imported. Most notable is the jump to first place for the United States
followed by France and then Italy in the value of world super-premium still wine production.
The super-premium shares of Australia, Spain and New Zealand are similar but well behind
Italy’s (Chart 41).

Global import value shares are best sub-divided into European and then others. In the
super-premium still wine category, Switzerland, Belgium-Luxembourg and the United
Kingdom take the first three places, before there is a step down to the next three Europeans,
namely Denmark, Germany and France (Chart 45). The United States and Japan have even
larger shares of super-premium imports by value though, at 17 and 12 percent, respectively;
and Canada is slightly ahead of the United Kingdom in this category (Chart 46). The East
Asian markets were still rather minor as destinations for super-premium wine as of 2009,
although they have grown very rapidly since then. The United Kingdom and United States
are almost equally dominant importers in the commercial-premium category, and with
Germany account for just over half of the value of those world imports. As for non-premium,
China is the only significant East Asian importer: by 2009 it was ranked 11th but has almost
certainly joined the top ten list since then.

The shares of super-premium consumption values are dominated by the United States,
followed by France. The next three are Japan, Canada and Switzerland, and then Germany,
Denmark and the United Kingdom. As for commercial-premium wines, the United States and
then the United Kingdom are ranked highest, followed well behind by France and then China,
Germany and Canada (Charts 42 and 43).

Those value share rankings are at pre-tax prices. They would be somewhat different if
they were at tax-inclusive prices, since tax rates differ across countries. Furthermore, in all
but the few countries such as Australia that have only ad valorem taxes, tax rates differ across
the quality categories because volumetric excise and import taxes raise the retail price more
on lower-quality wines. Taxes are especially high in developing Asia other than Hong Kong,
Scandinavia, Turkey, and the United Kingdom and Ireland, and are very low in Europe’s
wine-exporting countries (Tables 178-180). And there is a virtual ban on wine (and other
alcohol) consumption in many Islamic countries. If the ad valorem equivalent tax rates were
as low everywhere else as in Europe’s wine-exporting countries, the latter’s dominant shares
of global wine consumption would be much lower.

Clearly the world’s wine markets have been changing just as dramatically in the past
decade as they did in the previous decade. Producers in the Old World are continuing to
adjust, with some segments doing well (Bordeaux super-premium exporters) while others are
still over-supplied and require diversion to non-beverage uses (Table 18). In the New World,
growth in output has slowed for some in the wake of stock build-ups and price declines
(Australia and New Zealand), but recent growth in the value of exports by others (most
notably Argentina but also the United States) has been strong. Over the next decade eyes will
be on Asian import demand growth, but there will be new or expanding suppliers there also.
Finally, it is worth noting that the current wave of globalization over the past two decades is not a first for the world’s wine markets. There was an earlier wave, from 1860 to 1913, which was due not only to a decline in international trade costs that boosted most merchandise trade during that period, but also to vine diseases. The spread of phylloxera devastated French vineyards in the last third of the 19th century, and along with mildew damage led to France becoming a major importer of wine from the 1980s (Tables 267 and 269). Export-oriented viticulture boomed in North Africa as a consequence, thanks also to the French colonies in the region being provided with highly preferential access to the French market. By the early 20th century Algeria accounted for about 40 percent of global wine exports and, with Tunisia, for 6 percent of global wine production (Tables 266 and 267). North Africa’s share of world production was still 6 percent in 1961-64, when its share of world exports was a huge 54 percent – before dwindling to less than 4 percent in the 1980s and almost nothing from the 1990s (Chart 23). That region certainly will not regain its earlier share of world exports now that the New World has so strongly exerted itself, but nonetheless wine could become again a major rural export industry for those Islamic states if they chose to rejoin the world’s wine markets.

A summary of the change in the extent of globalization of the world’s wine markets can be seen by graphing the national shares of world production and export volumes cumulatively. The less-steep the rise in such a graph and the larger the number of countries required to get near to 100 percent, the more globalized the industry could be considered. Charts 49 and 50 indicate the changing situation from 100 years ago (just prior to World War I, after a half-century of dramatic globalization) to the early 1960s and then to the most recent five years for which global data are available. According to those two measures, the industry is certainly more globalized now than it was at the end of the previous major wave of globalization. Yet the wide dispersion across countries in wine expenditure per adult (Charts 19 and 20) and in taxes on wine consumption (Charts 47 and 48), and the fact that both the Old World and the New World are still exporting only about one-third of their wine production, suggests there is plenty of scope for globalization to progress further in the future.

References


