Australia’s viticultural trends: Insights from a new database

The Australian wine industry has had four cycles and is currently in its fifth. The current cycle started in the late 1980s and saw the nation’s vineyard area soar in the 1990s, in what was a delayed reaction to rising wine price. However, wineries struggled to expand export markets fast enough, and export prices began to fall, also because of a dramatic appreciation of the AUD in the 2000s thanks to rapid growth in mineral exports to China. That led to a belated and only modest decline in area from 2008 to 2015, before it plateaued as prices started to rise again. But in 2020, China imposed massive tariffs on imports of Australian wine and its market shrank, which lowered prices again (especially for reds).

Even though there are currently more than 180 winegrape varieties growing in Australia, the majority of the country’s surface is planted to a few key French varieties. Only nine varieties have an area larger than 1 %: Syrah (30 %), Cabernet Sauvignon (18 %), Chardonnay (15 %), Merlot (6 %), Sauvignon Blanc and Pinot Noir (4 % each), Pinot Gris and Sémillon (3 % each), and Riesling (2 %). Together those nine account for 86 % of the Australian vineyard area in 2023.

This concentration on French varieties has not always been the case. In the 1950s/early 1960s, the share originating from Spain was more than 40 % while the French share was no more than that of Greece at just under 20 %, with Turkey next at around 10 %. But the share of some varieties such as Garnacha Tinta from Spain and Sultaniye from Turkey has shrunk hugely. At the same time, the share of some French varieties has increased so much that now about 90 % of the Australian winegrape area is planted to French varieties.

This degree of concentration is also evident when looking at the varietal concentration index. In 2001, it was 12 %, which means that if two vineyard blocks were randomly selected in Australia in 2001, there was a 12 % chance of those two vineyard blocks having the same variety. By 2023, the varietal concentration index rose to 16 %. That is, the mix of winegrape varieties has become one-third more concentrated over the past two decades. Another index, known as the varietal similarity index, shows that over the same period the Australian mix of winegrape varieties has become more similar to that of the world as a whole (and to France).

Besides being concentrated on a few wine grape varieties, the Australian wine industry is also concentrated in a few regions. While there are more than 60 wine regions in Australia, often up to two-thirds of the wine is produced in just three major hot irrigated regions. With such a large share of wine grape production taking place in hot regions, only a bit more than one-third of the vineyard area has an optimal growing season temperature for producing high-quality wine (based on research by Jones, 2006). By 2050, climate change projections suggest the share of the vineyard area with an optimal growing season temperature for producing high-quality wine may decrease to 10–15% if the area by region and variety does not change.

In the future, one strategy for maintaining wine styles could be to plant varieties that do better in hotter climates. However, despite much media attention on alternative varieties, they represent only a tiny fraction of the Australian vineyard area. Another strategy for maintaining wine styles could be to source grapes from regions with cooler climates, such as Tasmania. This region/state has higher wine grape prices and gross revenues per hectare than any other region in Australia, and it is the only region and state in which the gross revenue per hectare has been trending upwards in recent years. However, even though its area has trebled in the past two decades, it currently represents only 1% of Australia’s current wine grape bearing area.

**Sources:** Sourced from the research article: “Two Decades of Grape Variety Trends in Australian Wine Regions” (Wine and Viticulture Journal, 2023).

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**FIGURE 2.** Australia’s wine grape bearing area based on varieties’ country of origin, 1956 to 2023.