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Effects of Wind on Wine



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Two California vintners discuss how wind influences viticulture, winemaking and resulting wine styles

Story by Stacy Briscoe

You can't see it, but it's there. One of the most defining environmental features of California's wine regions—wind. It can cool a warm climate or warm a cool climate; it can exacerbate problems in the vineyard or provide a viticultural solution.





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This, she says, is how the Alliance drew the boundaries for the proposed sub-region, but it took more research to prove the significance wind plays within this boundary to gain AVA status. "We set up wind stations measuring speed and consistency of the wind at various points," Stancliff says. The data showed consistent average wind speeds of about 8 miles per hour throughout the year.

Petaluma Gap is planted predominantly (75%) to Pinot Noir—a grape Stancliff says does well in the region, as it thrives in cooler climates.



PG-AVA-Map





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Courtesy of the Petaluma Gap Winegrowers Alliance.

According to Stancliff, it's common for certain vineyards to harvest Pinot Noir grapes as late as the first week of October, resulting in Brix levels reaching around 25 to 25.5. "It sounds high, but that's the only place the acid is going to be ripe," she says. Ripe, but still high—high enough to cut through resulting high(er) alcohol levels and grippy tannic structure.

In the cellar, "There's no way to ever whole-cluster," Stancliff says. "That's just begging for too much green tannin." She's also quite cognizant of new oak usage: too much will also raise tannin level, thus she opts for predominantly used barrels for fermenting and aging. "I've also moved away from three daily punch-downs to two and one pump-over to limit extraction," she says.

In the glass, Stancliff differentiates Petaluma Gap Pinot Noirs from the rest of the Sonoma Coast by its rich fruit character—showcasing more black and blue fruits (as opposed to red) along





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electricity to the wines."

Courtesy of the Santa Barbara County Vintners Association.

Unlike in Petaluma Gap, it's Chardonnay that's the most successful on Dees's windiest site. "It can get the best set, even in windy conditions," he says, noting that his vineyards are specifically planted to Dijon clones—a Chardonnay clone he says sets more reliably and produces larger clusters.





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the top soil. Those tiny DE cells are like throwing stars—we've seen them puncture young buds during grafting. It's the little things the wind does that keeps you on your toes. We're constantly praising and cursing it."

Dees also needs to wait a longer period time to harvest Chardonnay in order to get acid levels to drop to an appropriate level for vinification, sometimes as late as the first week of October. "But sugar rarely goes above 22.5 Brix," he says, commenting that TA can be as a high as 9 g/L.

Chardonnay, too, grows thicker skins in the midst of the heavy winds, creating what Dees calls "structurally robust" wines. In the cellar, this means using gentle pressing methods to prevent any unwanted phenolic bitterness. "The results are thrilling," Dees says. "Our windiest sites give us a racy wine that is unforgettable. Our Chardonnay has lightning-like electricity *and* structure that is completely unique to our location."

Stacy Briscoe

Stacy Briscoe is a Sonoma-based wine journalist and editor who produces content for several publications including Wine Enthusiast, SevenFifty Daily, and Wine Industry Network, among others. She also speaks at industry conferences, judges