# Gather to Grow



## Terroir



Wine is more than what you taste, smell and see. It reflects the place where the grapes come from.

## What is Terroir and where did the term originate?

Terroir, in general, is a sense of place. Soil, slope, climate, temperature, nearby bodies of water and altitude are all part of a vineyard's terroir.



The fundamental concept of terroir originated in France. The idea that the site determines the quality of the wine flourished here as early as the 1930's.

They developed a detailed system of regulations known as the Appellation d'Origine Contrôlée(AOC) to protect geographical areas where most of the best wines were produced in France.

## **Terroir**

#### **Temperature**



**Altitude** 

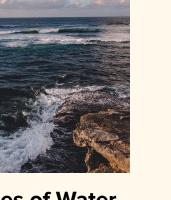




**Slopes** 



**Bodies of Water** 

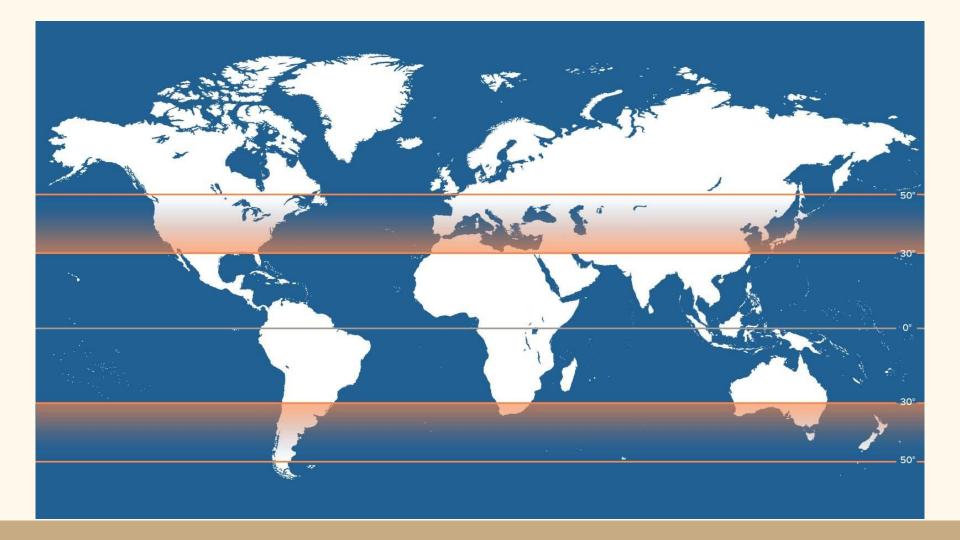


Climate



Soils





## **California**

## **North Coast**

The main influence of climate here is the ocean. Inland areas of the North Coast are drier and warmer than the coastal areas.

(Napa County vs. Sonoma County)

Soils here are primarily sedimentary gravelly alluvial loams on the western side, with more volcanic but heavier soils on the eastern side.

Rainfall here averages 35 inches annually.

Elevations range from 500 to 2600 feet.

Wines from this AVA are wide ranging with aromas that are light and delicate when they come from the cooler areas and deeper and riper if they come from the warmer areas.





## Napa Valley

The general climate is very mediterranean with dry, warm summers and wet, cool winters.

In the evening, fog forms and is funneled up through the valley, creating a blanket over the vineyards.

On either side of the valley floor are a set of mountain ranges that help define Napa Valley, the Mayacamas Range the Vaca Range on the eastern edge.

As for soils, Napa contains 50% of the world's soil orders. There are volcanic soils, marine bedrock, and sedimentary soils, all mixed together due to geological activity about 150 million years ago.



## Oakville, Rutherford and St. Helena

#### Oakville

- Fairly warm area with cooler nights
- Strongly affected by evening and early morning fog, which helps maintain acidity
- Soils range from iron-rich volcanic, gravel and loam mixed in the east, loam based in the cente
  of the valley and gravelly, volcanic and sedimentary in the west.

#### Rutherford

- Moderately warm area averages a bit warmer than Oakville
- Gets the most sun of any other valley floor AVA
- Unique soil type known as "Rutherford Dust" that is comprised of sedimentary, gravelly, sandy and alluvial. On the eastern side there is more volcanic soils

#### St. Helena

- Cooler with temperatures 10-15 degrees cooler than the valley floor in summer
- Less fog, less wind and more heat retention
- Soils are volcanic in origin and basaltic red in color
- Shallow area with limited water retention

## **Sonoma County**

Strongly influenced by the ocean - fog rises off the coast and drifts inland through the Petaluma Gap. This fog wraps itself around the mountains and fills the valley and the riverbeds.

Warm sunny days with almost no rain from May through September.

Soils here can range from sandy loam and volcanic ash to rock. In fact, they say Sonoma County has more soil types than all of France. Because the terroir is so different from one AVA to the next within Sonoma, it is home to around 50 different grape varieties.



## Carneros, Sonoma Coast and Russian River Valley

#### Carneros

- One of the coolest climates in Sonoma County influenced by San Pablo Bay & Petaluma Gap
- The soils are predominantly clay and very thin/shallow, providing poor drainage
- Grapes get plenty of sun but due to the influence of the ocean air, rarely get to much heat

#### Sonoma Coast

- Heavily influenced by the ocean and the coolest AVA within Sonoma County
- Gets almost twice the annual rainfall as its inland neighbors
- Soils here range from a combination of marine sediment with iron rich volcanic and metamorphic rocks to a fine grained, sandy loam known as Goldridge that has great drainage

#### Russian River Valley

- Also influenced by the cool climate and coastal fog that travels through the Petaluma Gap.
   Temperatures can drop in the evenings to below 40 degrees
- Due to this climate, Pinot Noir and Chardonnay make up 70% of the plantings here.
- Soil here is primarily Goldridge except for the central part of the region that is clay and the rive benchlands that are alluvial soil.

## **ONEHOPE Wines From North Coast**

#### North Coast

## Sonoma County

North Coast Reserve Zinfandel	Sonoma Coast Rosé	Russian River Valley Reserve Pinot Noir
North Coast Reserve Sparkling Brut	Sonoma Coast Reserve Chardonnay	Elway's Carneros Chardonnay

#### Napa Valley

Napa Valley Reserve Cabernet Sauvignon Rutherford Estate Cabernet Sauvignon - Blocks 1 & 5

Napa Valley Reserve Merlot Rutherford Red Blend

Napa Valley Petite Sirah Rutherford Estate Sauvignon Blanc

Napa Valley Sparkling Brut Rutherford Estate Fumé Blanc

Napa Valley Chardonnay Oakville Cabernet Sauvignon

Elway's Napa Valley Cabernet Sauvignon St Helena Reserve Kosher Cabernet Sauvignon

## **Central Coast**

The climate here ranges from cooler areas to the northern part with temperatures not reaching above 75 degrees to areas that are quite warm in the southern part.

Soils in the area are generally made up of gravelly loam, clay and sandstone.

Rainfall varies here from 8 to 40 inches annually.

Elevations range from 500 to 2000 feet.

Cool climate grapes such as Pinot Noir and Chardonnay excel in this area, particularly the northern and coastal parts. You will also find great expressions of Cabernet Sauvignon, Merlot, Zinfandel and Syrah.



## **Monterey County**

Located in northern Central Coast, it is one of the top 5 producing counties in California.

The southern part of Monterey can be extremely hot and the northern part is chilly. Cold winds whip off the waters of Monterey Bay. Fog plays a role here as well.

The valley is bordered by the Galiban Mountains in the east and the Santa Lucia Mountains which run down the edge of the Pacific Coast.

Soils here are primarily loam and clay.



## Arroyo Seco

- Steeped in winegrowing history and rooted in the geographic features of a waterway named "Arroyo Seco"
- Consisting of 18,240 acres it is one of the smallest AVAs in California
- One of California's most complex and diverse places to grow grapes
- Four general and visible areas of terrain loosely referred to by local grape-growers as
  - Gorge this narrow ravine is protected from the direct marine-influences of the Pacific Ocean but still has the influence of fog. The soils are very shallow with a thin, rocky (shale-based) layer of topsoil.
  - Ancient Riverbed this section of terrain is directly exposed to the strong maritime influences of dense fog and howling winds. The soil here lacks in quality.
  - Western Bench Overlooks the riverbed and is influenced by extreme marine-influences of the Pacific Ocean at Monterey Bay with saturating fog and gale-force winds.
  - Southern Bench located on the southern side of the riverbed which extends out south and east to the border of Arroyo Seco. Soil of shale and granite mixed with the topsoil is somewhat more fertile. Easterly wind from the "Gorge" converges with the southerly howling wind from the Pacific Ocean.

## **Paso Robles**

Located in the middle of the Central Coast it is the exception to the generally cool climates of this area.

It is shielded from the influence of the Pacific Ocean by the Santa Lucia Range on its western side allowing sun baked days.

There are significant variations between the daytime and nighttime temperatures.

Soils here are very diverse including granite, sedimentary volcanic, sandstone and a clay based soil with high lime content



## **ONEHOPE Wines From Central Coast**

## **Monterey County**

Monterey County Reserve Pinot Noir
Arroyo Seco Chardonnay

#### Paso Robles

Paso Robles Reserve Cabernet Sauvignon

## Washington

## Yakima Valley

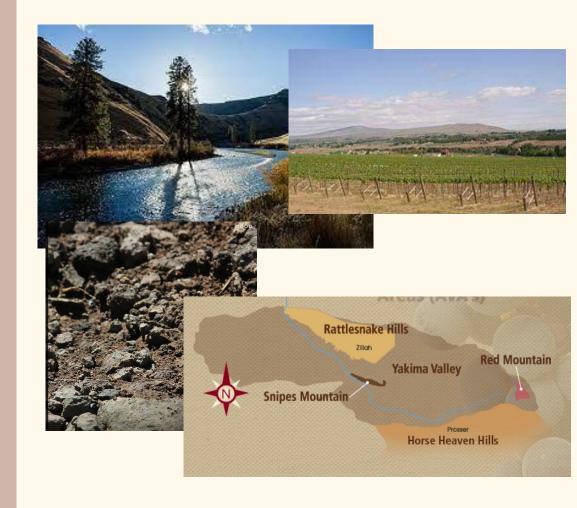
The climate here is similar to a cold desert climate with summertime temperatures during the day reaching into the high 90's and nights dropping to the 50's.

Average rainfall is less than 10 inches per year.

Soils are a mix of silt, gravel and volcanic ash.

Elevations range from 540 ft to over 3000 ft.

Wines here are highly concentrated with notes of blackberries, raspberries, cherries and boysenberries.



## Red Mountain

- Located at its easternmost tip of Yakima Valley, at a sharp bend of the Yakima River.
- Climate here is warm and dry during the growing months with temperatures reaching the 90's during the day and dropping to below 50 at night.
- Soils here have high alkalinity and calcium carbonate content as well as a granular consistency, which allows for each vine to form a well established root system.
- There are regular wind gusts of warm air that flow from the southwest during the growing season.

• Most notable wines from this area are Cabernet Sauvignon, Merlot, Syrah, Cabernet

Franc and Sangiovese.



## **ONEHOPE Wines From Red Mountain**

Red Mountain Cabernet Sauvignon

## **Questions or Comments**

