

# Yokayo

Yokayo soils are very deep soils formed from old mixed alluvium under oaks and annual grasses. They are very slowly permeable soils of moderate native fertility found on flat to moderately sloping, dissected terrace positions.



## Typical Profile:

0-1 ft.: dark grayish brown sandy loam

1-4 ft.: dark yellowish brown clay and clay loam

4-5+ ft.: light olive brown loam

## Soil Properties of Interest:

|   |  |
|---|--|
| Available water-holding capacity (0 - 5 feet) | 7.3 inches                                   |
| Drainage class:                               | Well Drained                                 |
| Permeability class:                           | Very Slow                                    |
| Clay range in profile:                        | 12 to 20% from 0-1'<br>35 to 50% from 1-5'   |
| Sand range in profile:                        | 60% in upper part<br>35 to 20% in lower part |
| Coarse fragments in profile:                  | Less than 15% gravels in profile             |
| Soil pH range:                                | 5.8 to 6.8<br>Increasing with depth          |



## Geography and Soil Climate:

Acres of Yokayo in Mendocino County: 6,108 acres

Acres of Yokayo soil under vines: over 992 acres

Annual precipitation: 32-44 inches  
Frost-free days: 200 to 250 days  
Elevation Range: 500' to 1,200'

Slope Range: 0 to 30%



## Fitness for Use in Vineyards:

- **Nutrient Cycling:** Practices should aim to retain the topsoil layer with its organic matter and nutrient supply. Organic amendments and cover crops build fertility, feed soil biology, and build soil tilth.
- **Water Relations:** Soil cover is critical to promoting water penetration into this soil. Available water-holding capacity is limited. The high clay subsoil layer may restrict root penetration by vines.
- **Management Considerations:** Yokayo soils are susceptible to soil compaction and rutting. They are susceptible to organic matter losses when heavily disturbed. The slowly permeable, near-surface subsoil layer raises the risk of shallow slope failures.
- **Winegrape varieties suited to the Yokayo soil:**  
Inland: Cabernet Sauvignon, Zinfandel, Merlot, Syrah

