

UNDERSTANDING VINEYARD SOILS

Justin Scheiner¹ and Michael Cook²

Soil management is an important aspect of grape production that may begin even before planting a vineyard. Soil provides the water and essential nutrients required for healthy grapevine growth and production, and like the grapevines themselves, vineyard soils require care.



Figure 1. Ideally, soil is about half minerals and organic materials, and the other half is space filled with an equal amount of air and water.

WHAT IS SOIL?

Soil is composed of small particles of minerals and organic matter, and the space between them is filled with air and water (Fig. 1). Based on their mineral composition and particle size, soils can vary widely in both their physical and chemical properties. Together, these properties are used to classify soils.

Soils are most broadly grouped into 12 soil orders, nine of which can be found in the state of Texas. The most specific classification of soils is soil series, and more than 1,300 different series have been identified across Texas. Although vineyards can be successfully grown in a wide range of soils, it is important for a grape grower to learn as much as possible about their soil prior to planting to determine if it is suitable for a vineyard, if modifications can and should be made, and/or if specific rootstocks should be used. Within a single site, soil can vary significantly, so it is important to thoroughly test the soil to determine its characteristics. The most important soil tests are chemical composition, soil depth, and internal drainage.

SOIL TEXTURE

Soil texture refers to the size of the particles that make up the soil, and this has an important impact on soil properties. There are three textural classes: sand, silt, and clay. Sand has the largest particle size (2 to 0.05 mm diameter), followed by silt (0.05 to 0.002 mm diameter), and then clay (<0.002 mm diameter) (Fig. 2).



Figure 2. Relative particle size of sand (1 mm) versus silt (0.05 mm).

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Understanding Vineyard Soils

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Understanding Vineyard Soils:

Understanding Vineyard Soils Robert E. White, 2015-01-02 The first edition of *Understanding Vineyard Soils* has been praised for its comprehensive coverage of soil topics relevant to viticulture. However, the industry is dynamic; new developments are occurring especially with respect to measuring soil variability, managing soil water, possible effects of climate change, rootstock breeding and selection, monitoring sustainability, and improving grape quality and the typicity of wines. All this is embodied in an increased focus on the terroir or sense of place of vineyard sites with greater emphasis being placed on wine quality relative to quantity in an increasingly competitive world market. The promotion of organic and biodynamic practices has raised a general awareness of soil health which is often associated with a soil's biology but which to be properly assessed must be focused on a soil's physical, chemical, and biological properties. This edition of White's influential book presents the latest updates on these and other developments in soil management in vineyards. With a minimum of scientific jargon, *Understanding Vineyard Soils* explains the interaction between soils on a variety of parent materials around the world and grapevine growth and wine typicity. The essential chemical and physical processes involving nutrients, water, oxygen, and carbon dioxide, moderated by the activities of soil organisms, are discussed. Methods are proposed for alleviating adverse conditions such as soil acidity, sodicity, compaction, poor drainage, and salinity. The pros and cons of organic viticulture are debated, as are the possible effects of climate change. The author explains how sustainable wine production requires winegrowers to take care of the soil and minimize their impact on the environment. This book is a practical guide for winegrowers and the lay reader who is seeking general information about soils but who may also wish to pursue in more depth the influence of different soil types on vine performance and wine character.

Understanding Vineyard Soils Robert E. White, 2015-02-04 An introduction to viticulture and soil science for both amateur vineyard growers and scientists.

Healthy Soils for Healthy Vines Robert White, Mark Krstic, 2019-09-01 *Healthy Soils for Healthy Vines* provides a clear understanding of vineyard soils and how to manage and improve soil health for best vineyard performance. It covers the inherent and dynamic properties of soil health, how to choose which soil properties to monitor, how to monitor soil and vine performance, and how vineyard management practices affect soil health, fruit composition, and wine sensory characters. It also covers the basic tenets of sustainable winegrowing and their significance for business resilience in the face of a changing climate. This book will be of practical value to anyone growing grapevines, managing a vineyard, or making wine, from the small individual grower to the large wine company employee. It will be of special interest to winegrowers employing organic, natural, or biodynamic methods of production where the primary focus is on the biological health of the soil.

Vineyards, Rocks, and Soils Alex Maltman, 2018 This pioneering book explains geology wholly in the context of wine, including how it works in vineyards and its possible effects on wine taste.

The Oxford Companion to Wine Jancis Robinson, Julia Harding, 2015-09-17 Published in 1994 to worldwide acclaim, the first edition of Jancis Robinson's

seminal volume immediately attained legendary status winning every major wine book award including the Glenfiddich and Julia Child IACP awards as well as writer and woman of the year accolades for its editor on both sides of the Atlantic Combining meticulously researched fact with refreshing opinion and wit The Oxford Companion to Wine presents almost 4 000 entries on every wine related topic imaginable from regions and grape varieties to the owners connoisseurs growers and tasters in wine through the ages from viticulture and oenology to the history of wine from its origins to the present day More than 180 esteemed contributors including 58 new to this edition range from internationally renowned academics to some of the most famous wine writers and wine specialists in the world Now exhaustively updated this fourth edition incorporates the very latest international research to present 300 new entries on topics ranging from additives and wine apps to WSET and Zelen Over 60 per cent of all entries have been revised and useful lists and statistics are appended including a unique list of the world s controlled appellations and their permitted grape varieties as well as vineyard area wine production and consumption by country Illustrated with almost 30 updated maps of every important wine region in the world many useful charts and diagrams and 16 stunning colour photographs this Companion is unlike any other wine book offering an understanding of wine in all of its wider contexts notably historical cultural and scientific and serving as a truly companionable point of reference into which any wine lover can dip and browse

The Spirituality of Wine Gisela H. Kreglinger, 2016-04-26 In this book Gisela Kreglinger offers a fresh holistic vision of the Christian life that sees God at work in all created things including vineyards the work of vintners and the beauty of well crafted wine shared with others around a table Kreglinger begins by examining wine in the Bible in the history of the church and in the Lord s Supper and these reflections culminate in a theology of joy and feasting that celebrates the human senses as gifts for tasting the goodness of God In the second part of the book Kreglinger brings Christian spirituality and the world of wine together in new ways exploring such matters as technology and wine crafting the health benefits of wine alcohol abuse consumerism and soul care Her discussion is enriched by interviews with thirty vintners from around the world as well as her own experience growing up on a family winery in Bavaria

The Oxford Companion to Wine Julia Harding MW, Jancis Robinson OBE MW, Tara Q. Thomas, 2023-08-15 Everything you could possibly want to know about wine in one fully up to date A Z volume The Oxford Companion to Wine is a uniquely comprehensive and in depth A Z reference book on every aspect of wine more than 4 000 entries covering topics from history through geography geology soil science viticulture winemaking packaging academia technology and regulations to people and places tasting writing and the language of wine The system of cross references takes the reader from one entry to another showing how all these topics are interconnected in the fascinating story of wine in its most traditional and modern forms This new fifth edition which benefits from the knowledge and experience of over one hundred new contributors all experts in their field or geographical region is expanded by 272 new entries and every existing entry has been reviewed updated and polished The text is more international than ever written for wine lovers of every

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