



The Vineyard of the Future: Producing More with Less

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Abstract:

Context and purpose – similar to other agricultural producers, grape growers face increasing pressure to improve productivity and production efficiency while reducing their environmental impact. Threats due to extreme climate events, as well as the uncertainty of available water and labor, provide significant challenges to the future of grape production. This presentation will provide an integrated overview of the tools and technologies being developed to address these issues and to help growers manage vineyards in the future, including vineyard design, remote and proximal sensing, automation, data management and decision support systems, and germplasm improvement. The potential impact of these advancements on vineyard productivity, fruit quality, and sustainability will be discussed.

Keywords: Grapevine, vineyard, water, labor, technology.