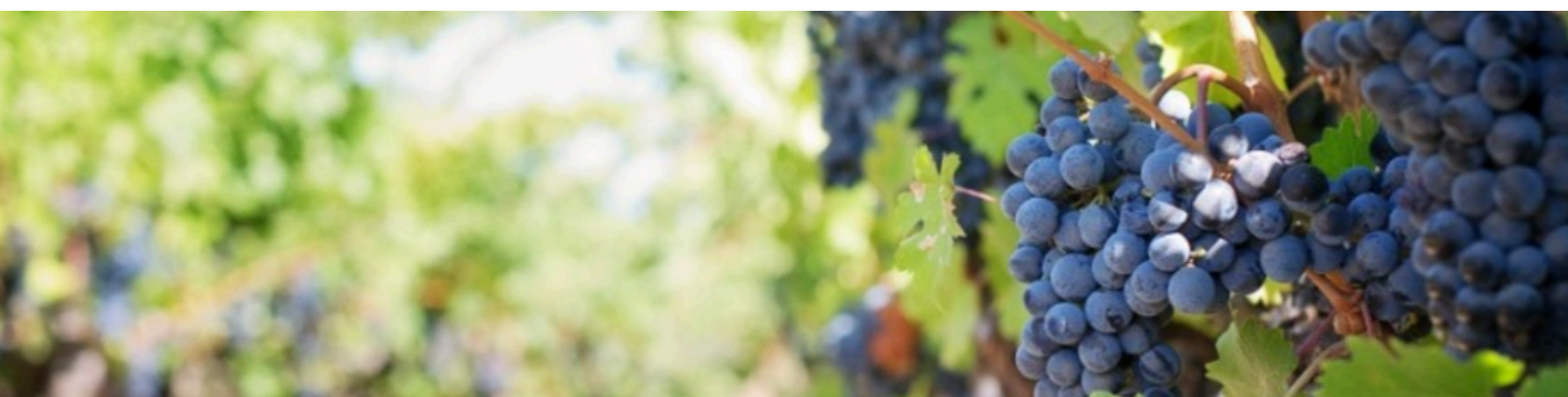


# BIOCHAR IN VITICULTURE

## MARKET AND RESEARCH INSIGHTS FOR GRAPE GROWERS AND BIOCHAR PRODUCERS



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### LINK TO WEBINAR

<https://youtu.be/g00l8B9sfSw?feature=shared>

### A SPECIAL THANKS TO OUR SPEAKERS...

KATHLEEN DRAPER  
FINGER LAKES BIOCHAR (NY), CO-AUTHOR OF BURN-USING FIRE TO COOL THE EARTH, IBI CHAIR, USBI BOARD MEMBER  
JOSIAH HUNT  
PACIFIC BIOCHAR BENEFIT CORP., USBI BOARD MEMBER  
DOUG BECK  
MONTEREY PACIFIC INC.

### LINK TO DOVETAIL PARTNERS INC. REPORT

<https://dovetailinc.org/portfoliodetail.php?id=61688a6830537>

### SUMMARY OF BIOCHAR BENEFITS

#### Soil Functions

Increases Infiltration/Retention  
Increases CEC/AEC (up to 50%)  
Increases Microbial Activity  
Balances pH  
Decreases Bulk Density

#### Water Quality

Intercept/Absorb/Assimilate  
Nutrients/Heavy  
Metals/Hydrocarbon  
Enormous Surface Area

#### Biomass Upcycling

Biomass Waste (Manures)  
Cropped Biomass Flexibility  
Cost Effective Adsorbent

#### Potential Longevity

Short Term Soil Organic Carbon  
(1-5 years)  
Long Term Soil Organic Carbon  
(100's of Years)

## PROJECT OVERVIEW

The project explored the potential for using biochar in three applications: Viticulture, Livestock and Poultry, and Stormwater Management.

#### The process used was to:

Interview experienced users  
Review relevant published scientific research  
Analyze needs of users and other market data  
Provide educational outreach (Webinars & Reports)

## REPORT HIGHLIGHTS

Biochar has been successfully used in viticulture to boost productivity through improved plant and soil health without negative effects to the grape or wine flavor

There is a large body of research supporting the application of biochar in viticulture specifically, as well as in soils and compost generally.

There are many suppliers of biochar in the major grape growing regions of the US.

# \$7,000 per acre

for the biochar alone at the rate of

# 10 tons per acre.

If the lifespan of the product and its benefits are long-term, it can be worth it if one application provides

# benefits over

# 20 years

of a vineyard's life.

# \$2000/ACRE

The most current and applicable exploration of costs was published by the Sonoma Ecology Center at establishment, where the return on investment was fulfilled after the first growing season

Research has shown this [grape residue] biochar to be particularly beneficial,

# increasing water retention by 23%

as it provides the additional benefit to the growers from both phytosanitation and disposal aspects.

#### INFORMATION PRODUCED WITH INPUT FROM THESE AUTHORS:

Kathleen Draper, Chair, International Biochar Initiative  
Harry Groot, Dovetail Partners  
Ashley McFarland, Dovetail Partners  
Tom Miles, Chair, US Biochar Initiative

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