

Ag Testing - Consulting

Account No. : 603476

Soil Analysis Report

BITNER, RON
BITNER VINEYARDS
16645 PLUM RD
CALDWELL

ID 83607

Invoice No. : 1417107
Date Received : 11/16/2023
Date Reported : 11/20/2023

Results For : RON BITNER
Location : BV HOME BLOCK TEST SAMPLES

Lab No. : 235701
ID : 1 ZAMZOO

Soil Health Assessment

Depth : 0 - 12

1:1 Soil pH	8.2	Soil Tests	
1:1 Soluble Salts, mmho/cm	0.17	Phosphorus Olsen P, ppm P	10.5
Excess Lime Rating	HIGH	Potassium NH4OAc, ppm K	226
Organic Matter, %LOI	2.0	Zinc DTPA, ppm Zn	1.22
		Iron DTPA, ppm Fe	3.0
Soil Respiration CO₂-C, ppm C	14.1	Manganese DTPA, ppm Mn	0.7
Water Extract		Copper DTPA, ppm Cu	0.16
Total Nitrogen, ppm N	8.3	Sulfate M-3, ppm S	12.7
Organic Nitrogen, ppm N	3.3	Calcium NH4OAc, ppm Ca	3854
Total Organic Carbon, ppm C	78	Magnesium NH4OAc, ppm Mg	364
Ammonium-N, H ₂ O ppm N	3.5	Sodium NH4OAc, ppm Na	65
Nitrate-N H ₂ O, ppm N	1.56		
Calculations		Soil Health	
Microbially Active Carbon (%MAC)	18.0	Soil Health Calculation	3.59
Organic C : Organic N	24.1	Cover Crop Suggestion	60% Legume 40% Grass
Organic Nitrogen Release, ppm N	2.3	Water Stable Aggregates (Mod) %	82
Organic Nitrogen Reserve, ppm N	0.9		<small>Includes 0.25 -2.00 mm diameter sand grains</small>

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Phosphorus Olsen P, ppm P 10.5

Sum of Cations, me/100g	% Saturation				
H	K	Ca	Mg	Na	
23.2	0	3	83	13	1

Recommendations	
In Actual Pounds of Plant Nutrients per Acre	
N Credit :	235701
Sub-Soils :	
Crop	(Ward) Grape (Normal Yield)
Yield	1
Nitrogen N	45
Phosphorus P ₂ O ₅	15
Potassium K ₂ O	0
Sulfur S	0
Zinc Zn	0
Magnesium Mg	0
Iron Fe	Potential Iron Chlorosis
Manganese Mn	7
Copper Cu	1.6

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Results For : RON BITNER
Location : BV HOME BLOCK TEST SAMPLES

Lab No. : 235702
ID : 2 CONTROL

Soil Health Assessment

Depth : 0 - 12

1:1 Soil pH	8.4	Soil Tests	
1:1 Soluble Salts, mmho/cm	0.21	Phosphorus Olsen P, ppm P	8.1
Excess Lime Rating	HIGH	Potassium NH4OAc, ppm K	474
Organic Matter, %LOI	2.0	Zinc DTPA, ppm Zn	0.58
		Iron DTPA, ppm Fe	2.0
Soil Respiration CO₂-C, ppm C	21.0	Manganese DTPA, ppm Mn	1.1
Water Extract		Copper DTPA, ppm Cu	0.34
Total Nitrogen, ppm N	12.0	Sulfate M-3, ppm S	33.8
Organic Nitrogen, ppm N	6.8	Calcium NH4OAc, ppm Ca	3811
Total Organic Carbon, ppm C	124	Magnesium NH4OAc, ppm Mg	426
Ammonium-N, H ₂ O ppm N	3.3	Sodium NH4OAc, ppm Na	36
Nitrate-N H ₂ O, ppm N	1.91		
Calculations		Soil Health	
Microbially Active Carbon (%MAC)	17.0	Soil Health Calculation	5.65
Organic C : Organic N	18.2	Cover Crop Suggestion	60% Legume 40% Grass
Organic Nitrogen Release, ppm N	4.6	Water Stable Aggregates (Mod) %	70
Organic Nitrogen Reserve, ppm N	2.2		Includes 0.25 -2.00 mm diameter sand grains

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Results For : RON BITNER
Location : BV HOME BLOCK TEST SAMPLES

Lab No. : 235702 **Depth : 0 - 12**
ID : 2 CONTROL

Phosphorus Olsen P, ppm P	8.1
Sum of Cations,	% Saturation
me/100g	H K Ca Mg Na
24.0	0 5 79 15 1

Recommendations	
In Actual Pounds of Plant Nutrients per Acre	
N Credit :	<small>235702</small>
Sub-Soils :	
Crop	(Ward) Grape (Normal Yield)
Yield	1
Nitrogen N	35
Phosphorus P ₂ O ₅	20
Potassium K ₂ O	0
Sulfur S	0
Zinc Zn	7
Magnesium Mg	0
Iron Fe	Potential Iron Chlorosis
Manganese Mn	6
Copper Cu	0