

These two reports show two significant findings. First, take a look at the soil health indexes. The treated area shows a soil health score of 55.1 and the non-treated area, 31.1.

The SLAN component of the soil health index measures the amino acid nitrogen content. The Amino Acid form of N is available and soluble to the plant root, and it's a more efficient form of nitrogen. Amino nitrogen saves the plant the energy needed to convert nitrate or ammonium to amino acids - which are always the end use of nitrogen. The microbial community that we're trying to improve in the soil generates amino nitrogen which is different than your regular nitrate and ammonium forms of nitrogen that is reported in a traditional soil test.

By maintaining plant health with Pacific Gro, root exudates are produced, nutrients become available, diseases are suppressed, and carbon is sequestered by photosynthesis.



7720 Kelly Court
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Name: Mark Dodd
 Creative AG Products, Inc.

Field ID: Grapes


Sample ID: Treated

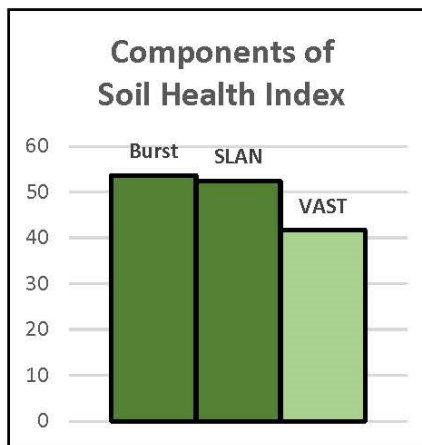
Soil type:

Previous crop:

Intended crop:

Soil Health Score components

Solvita CO2 Burst	107.3 #/A-day
	80.7 ppm
Solvita SLAN (amino-N)	209.5 #/A
	157.5 ppm
Solvita VAST	25 %
Soil Health Index (out of 100)	55.1 



Potential Nitrogen Mineralization

Other Soil Properties

Soil acidity (pH)	7.3
Bulk density	
Microbial biomass	
EC (total dissolved salts)	0.67
Available nitrogen	
Carbon-Nitrogen ratio	



Comparing the lab from the Non-treated block of grapes (below) with the lab from the treated block (above) ...

Note how the CO2 BURST (carbon dioxide respiration) **doubled** (from 50 lbs per acre per day to 107 lbs) with the biological program,


and the SLAN (amino acid content) **tripled** (from 70 lbs amino acids per acre to almost 210 lbs)

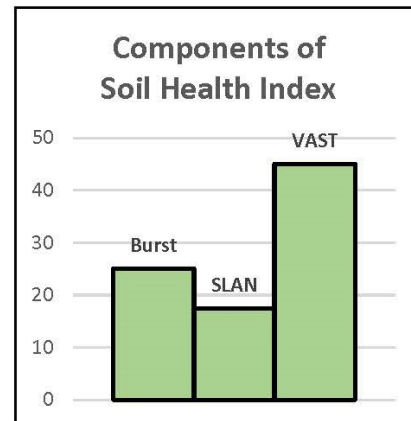


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Name: Mark Dodd
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 Field ID: Grapes
 Sample ID: Non-treated
 Soil type:
 Previous crop:
 Intended crop:

Soil Health Score components

Solvita CO2 Burst	50.0 #/A-day
	37.6 ppm
Solvita SLAN (amino-N)	69.8 #/A
	52.5 ppm
Solvita VAST	27 %
Soil Health Index (out of 100)	31.1 



Potential Nitrogen Mineralization

Other Soil Properties

Soil acidity (pH)	6.5
Bulk density	
Microbial biomass	
EC (total dissolved salts)	0.34
Available nitrogen	
Carbon-Nitrogen ratio	



Sample received
 8/7/2019

Results reported
 8/14/2019