WALLACE LABS
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MEDIA REPORT

Print Date Feb. 21, 2023

Location California Soils, Inc.

Requester Conor Davis

graphic interpretation: * very low, ** low, *** moderate

ammonium bicarbonate/DTPA **** high, ***** very high

extractable - mg/kg soil Interpretation of data low medium high		Sample ID Number Sample Description 23-52-08 Home Harvest	
	elements		graphic
0 - 12 16 - 28 32 - 44	**phosphorus**	195.43	*****
0-240 240-500 500-700	**potassium**	2,725.46	*****
0- 12 12- 20 over 20	**iron**	137.19	*****
0 - 2 3 - 4 over 5	**manganese**	28.26	****
0 - 4 4 - 6 over 6	**zinc**	44.09	*****
0- 0.5 0.6 - 1 over 1	**copper**	6.79	*****
0 - 1 1 - 2 over 2	**boron**	2.05	****
	calcium	3,987.55	*****
	magnesium	822.57	*****
	sodium	928.26	****
	sulfur	489.11	**
	molybdenum	n d	*
	nickel	0.97	*
The following trace	**aluminum**	n d	*
elements may be toxic	**arsenic**	n d	*
The degree of toxicity	**barium**	2.79	*
depends upon the pH of	**cadmium**	n d	*
the soil, soil texture,	**chromium**	n d	*
organic matter, and the	**cobalt**	0.38	*
concentrations of the	**lead**	3.90	*
individual elements as well	**lithium**	n d	*
as to their interactions	**mercury**	n d	*
	selenium	n d	*
The pH optimum depends	**silver**	n d	*
upon soil organic	**strontium**	12.65	*
matter and soil content-	**tin**	n d	*
	vanadium	1.01	*
under 5 may be too acidic			
6 to 7 may be good	**Saturation Extract**		
over 8.0 is too alkaline	**pH value**	6.74	***
The ECe is a measure of	**ECe (milli-**	1.89	***
the media salinity:	**mho/cm)**		millieq/l
good at 200 ppm	**calcium**	84.1	4.2
good at 25 ppm	**magnesium**	30.6	2.5
	sodium	108.9	4.7
good at 25 ppm	**ammonium as N**	10.1	0.7
good at 150 ppm	**potassium**	228.9	5.9
	cation sum		18.0
	chloride	291	8.2
good at 100 ppm	**nitrate as N**	25.6	1.8
good at 40 ppm	**phosphorus as P**	5.8	0.2
toxic over 800	**sulfate as S**	114.3	7.1
	anion sum		17.4
toxic over 1 for many plants	**boron as B**	0.50	***
increasing problems start at 3	**SAR**	2.6	**
est. gypsum requirement-lbs./cubic yard		17.3	
	Total Nitrogen, dry weight basis	1.02%	
	Total Carbon, dry weight basis	27.35%	
	Carbon:Nitrogen Ratio	26.8	
	lime (calcium carbonate)	no	
	organic matter, dry weight basis	54.70%	
	moisture content of media	100.4%	
	half saturation percentage	233.8%	

ideal percentages of cations				% saturation
abt 5 %	potassium	millieq K	3.48	9%
< 3%	sodium	millieq Na	1.32	3%
abt 70%	calcium	millieq Ca	24.58	61%
10 - 15%	magnesium	millieq Mg	6.94	17%
5-10%	hydrogen	millieq H	3.84	10%
		total millieq/100 grams	40.16	

Elements are expressed as mg/kg dry soil or mg/l for saturation extract.
pH and ECe are measured in a saturation paste extract. nd means not detected.