

# FULL SOIL REPORT

## SOLUBLE NUTRIENT AVAILABILITY REPORT



Dirty Business Soil Consulting & Analysis  
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<b>Report date: 5-9-2015</b>

Source	Sample ID	Lab ID	pH	EC (dS/m)	Organic Nitrogen (Lb/a)	OM %	OC %
DBS	front	5555P-F2	7.1H	0.8L	392	18	10
Optimal			6.5	1 - 4	330 - 420	14 - 35	8 - 20
				*Electrical Conductivity	*Organic Nitrogen	*Organic Matter	*Organic Carbon

Percent Exchangeable Cations				
Sample ID	Calcium (% Ca)	Magnesium (% Mg)	Sodium (% Na)	Potassium (% K)
front	17	4	16	63
Optimal %	45	9	<5	38
How Calcium (Ca), Magnesium (Mg), Sodium (Na), and Potassium (K) relate to each other. These will add up to 100%. By increasing one, others will decrease.				

Micronutrients				
Zinc (Zn) ppm	Manganese (Mn) ppm	Copper (Cu) ppm	Iron (Fe) ppm	Boron (B) ppm
12.8L	9.1	0.6L	5.4L	2.3
14 - 30	8 - 30	2 - 30	25 - 50	0.5 - 2.5

Soluble Plant Available Macronutrients						
Sample ID	Calcium (Ca) ppm	Magnesium (Mg) ppm	Sodium (Na) ppm	Potassium (K) ppm	Nitrate (NO <sub>3</sub> <sup>-</sup> ) ppm	Phosphate (PO <sub>4</sub> <sup>3-</sup> ) ppm
front	92	20L	85	328H	21VL	22
Optimal Range (ppm)	80 - 400	30-70	0 - 80	60-200	70 - 200	15 - 25
<b>Optimal Ranges: Adapted from Saturated Media Extract Method by D. D. Warncke. NCR Publication No. 221(1998), pp 61 - 64.</b>						

Calcium to Magnesium Ratio
Ca:Mg
2.8
3 - 5

\*Sodium (Na) is not a necessary nutrient and has no application rate  
 VL - Very Low, Plants will likely be deficient and reduce yield  
 L - Low in this nutrient - bring up your numbers so your plants are not deficient in this nutrient.  
 H - High in this nutrient - DOES NOT mean that you are toxic. Macronutrients don't go toxic as quickly as micronutrients.  
 VH - Excessive amounts, Not all nutrients cause toxicity unless you are unable to flush due to plastic or clay.  
 ND - No Detection - This means there was not a detected amount of this substance in your water sample.

**Interpretations & Recommendations:**

**\*For further details and recommendations about your report give us a call to discuss consultation and fertility management options. You can also check out our FAQ's page at [www.dbsanalytics.com](http://www.dbsanalytics.com) for more information.**

The yield of any crop is controlled by many factors in addition to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance.

Application rates are given for NUTRIENTS not PRODUCTS since everyone uses different products. Please consider the nutrient percent in your chosen product when calculating your application rate.

*Sulfates are typically higher than optimum due to the nature of potting media and the specialty crops we grow. Although these numbers can be high, they are not toxic. Optimal ranges for these do not currently exist, but DBS is working on developing the ranges.*