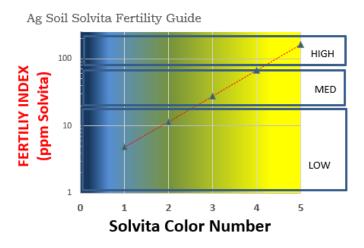
## SOLVITA COLOR



## COLOR RANGE ADJUSTMENT FOR CO2-RESPIRATION

Solvita makes possible a colorimetric measurement of soil biological activity by the ability of microbes to produce CO<sub>2</sub> which is captured, producing a color wavelength change. This can be estimated visually (Solvita Color Chart) or measured more accurately by Solvita DCR or the new IRTH. The original Solvita Color Scale relates to exponential increases in concentration of CO<sub>2</sub> as indicated in <u>Chart #1</u>

The **Solvita Color Scale** is a biological "**fertility index**" or the capacity of the soil to produce microbial carbon dioxide over the range of about o - 250 mg / kg (ppm)/day.



<u>Chart #2</u> indicates the shift in interpretation from the 2016 Solvita protocol to the new SOLVITA 2019 system<sup>1</sup> released in November 2018.

	r	2010-101-101-101-1		
		CO2-C		
	COLOR	Range	2019	2016
Control Color ¥	0.0	0 - 3		
1	1.0	4 - 9	LOW	
2	2.0	10 - 14		LOW
2.5	2.5	15 - 22		
2.5	3.0	23 - 34	MED LOW	
3	3.5	35 - 55		
3.5	4.0	<mark>56 - 85</mark>	MED HIGH	MED
4	4.5	86 - 125		
© 2014 Woods End Laboratories, Inc.	5.0	126 - 195	HIGH	HIGH
	5.5	> 196 -	Excessive	

<sup>&</sup>lt;sup>1</sup> Soil CO<sub>2</sub>-Respiration – Official Solvita Instructions, SOP 2019