



AgroLab, Inc.

SMP Buffer pH Liming Table

Soil Fertility Quick Reference Guide

Soil Buffer pH	Target Soil pH				
	5.2	5.8	6.2	6.5	6.8
6.9					
6.8					
6.7					
6.6					
6.5					
6.4					
6.3					

Gray area: Consider lime amendment

Quick Reference:

<i>AgroLab Mehlich 3 Soil Test P ppm</i>	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-25	25-50	Low	0-25	0-32
26-50	51-89	Medium	26-50	33-57
51-100	90-99	Optimum	51-100	58-108
100+	100	Excessive	100+	109+
<i>AgroLab Mehlich 3 Soil Test K ppm</i>	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-46	25-50	Low	0-25	0-28
47-91	51-89	Medium	26-50	29-56
92-182	90-99	Optimum	51-100	57-111
183+	100	Excessive	100+	112+
<i>Note: based on Delmarva soils (OM: 1-5%)</i>				
<i>AgroLab Mehlich 3 Soil Test Ca ppm</i>	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-250	25-50	Low	0-25	0-18
256-500	51-89	Medium	26-50	19-44
501-1,000	90-99	Optimum	51-100	45-97
1,000+	100	Excessive	100+	98+
<i>AgroLab Mehlich 3 Soil Test Mg ppm</i>	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-33	25-50	Low	0-25	0-34
34-66	51-89	Medium	26-50	35-58
67-131	90-99	Optimum	51-100	59-106
131+	100	Excessive	101+	107+
<i>AgroLab Mehlich 3 Soil Test S ppm</i>	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-6	25-50	Low	N/A	N/A
7-12	51-89	Medium		
13-17	90-99	Optimum		
18+	100	Excessive		

<i>AgroLab Mehlich 3</i> Soil Test Zn ppm	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-2.5	25-50	Low	N/A	N/A
2.6-4.8	51-89	Medium		
4.9-10	90-99	Optimum		
10+	100	Excessive		
<i>AgroLab Mehlich 3</i> Soil Test B ppm	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-.2	25-50	Low & Medium	N/A	N/A
.2-.5	51-89	Medium		
.6-1.7	90-99	Optimum		
1.8+	100	Excessive		
<i>AgroLab Mehlich 3</i> Soil Test Mn ppm	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-14	25-50	N/A	N/A	N/A
15-25	51-89			
26-50	90-99			
50+	100			
<i>AgroLab Mehlich 3</i> Soil Test Cu ppm	<i>Approximate % Sufficiency</i>	<i>Approximate University of Delaware Rating</i>	<i>U of Delaware FIV</i>	<i>U of Maryland FIV</i>
0-.3	25-50	Low	N/A	N/A
.3-.4	51-89	Medium		
.5-3.0	90-99	Optimum		
3.0+	100	Excessive		
<i>AgroLab Soluble Salts</i> <i>mmho/cm</i>	<i>Plant Growth Response</i>			
0-1	Optimum Crop Response			
1-2	Possible Yield Reduction			
2-3	Likely Yield Reduction			
3-6	Crop Failure/Yield Reduction			